

FEBRUARY, 1985

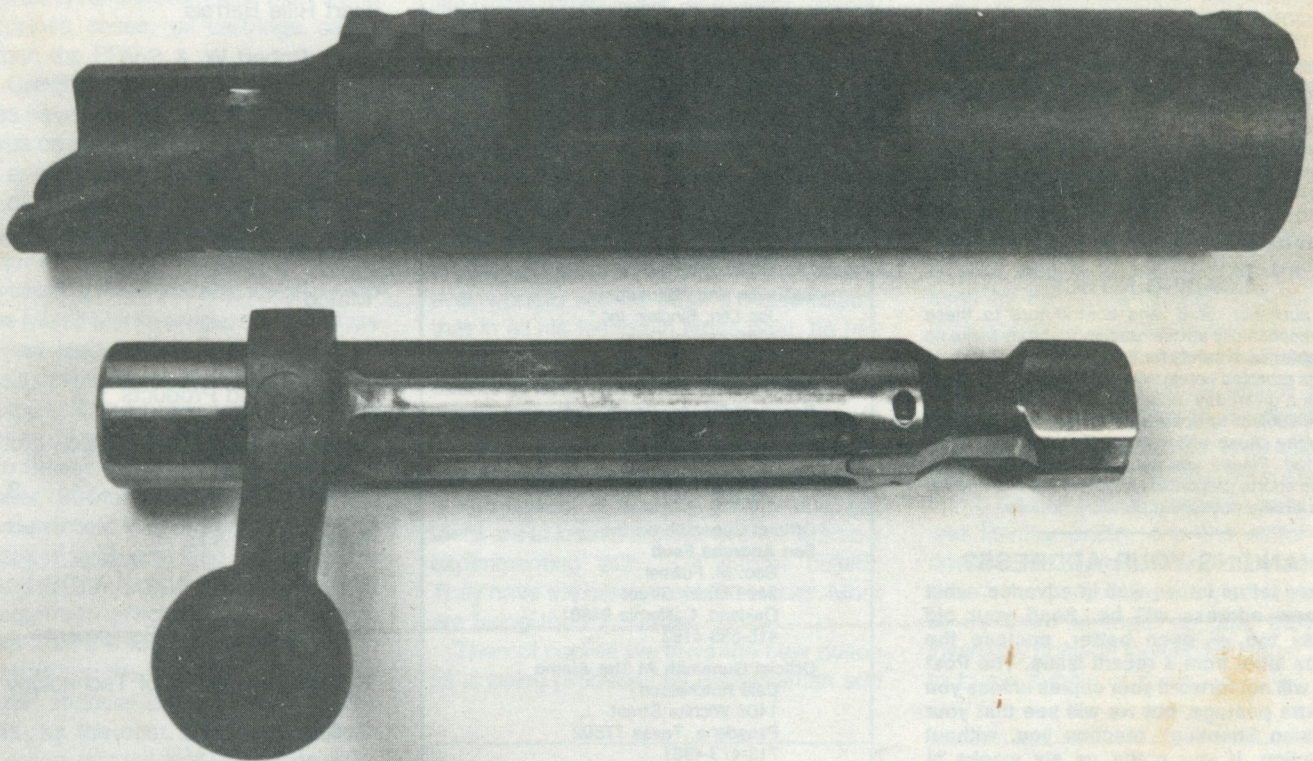
Vol. 30 — No. 10

\$1.50

Precision

SHOOTING

a magazine for shooters by shooters



PRECISION SHOOTING

PUBLISHED MONTHLY BY PRECISION SHOOTING, INC.

Editorial Offices
37 Burnham Street East Hartford, Conn. 06108
Tel. 203-289-8775

Business Offices
Stella Buchtel
5735 Sherwood Forest Drive Akron, Ohio 44319
Tel. 216-882-6877

Editor — David D. Brennan
President — Dr. A. H. Garcelon
Vice-President — Dermot C. Reilly
Treasurer — Stella Buchtel
Corp. Clerk — Allie Euber

Precision Shooting (USPS 441840) is published monthly by Precision Shooting, Inc. Rates: U.S., Canada and Mexico \$15.00 a year; \$25.00 for 2 years; all other countries \$22.50 Surface Mail, \$40.00 Air Mail, each year.

POSTMASTER: Send all address changes to Precision Shooting, Inc., 5735 Sherwood Forest Drive, Akron, Ohio 44319.

Place of Publication — Elmira Quality Printers, Inc., Elmira, New York. Second-class postage paid at Elmira, New York.

NOTICE TO ADVERTISERS

PRECISION SHOOTING is printed by offset. Display copy is to be furnished by the advertiser. Advertising plates will be made from negatives, good black and white glossy prints or clear copy. Displays will be made to Advertiser's specifications. All normal composition will be set according to our own standards. Rate cards will be mailed to Advertisers on request. We reserve the right to reject advertising that we do not deem in the best interests of Precision Shooting, or which the Editor takes a dislike to.

LOADING NOTICE

The publisher, staff, and contributors to these pages respectfully advise readers that they make no representation of safety for the loads, procedures, or methods reported herein. We publish facts that were used on a given day, under a set of circumstances that are subject to dozens of variables, any one of which may cause an accident if changed or even duplicated. Please use caution at all times in the shooting sports. Benchrest shooters are fine people, and we dislike publishing obituary notices.

CHANGING YOUR ADDRESS?

Please let us know, well in advance, what your new address will be. Send your old address too — even better, enclose the address label from a recent issue. The Post Office will not forward your copies unless you pay extra postage, but we will see that your "Precision Shooting" reaches you, without interruption, if you notify us six weeks in advance of your move. Write to Precision Shooting, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

When giving your address please add your Zip Code number.

BACK ISSUES

Now available — 1-3 issues \$2.00, 4-11 issues \$1.50 each, 12 or more \$1.00 each. Write James Hart, R.D. 3, Lafayette, N.Y. 13084. Make checks payable to Precision Shooting.

PS STAFF

PRESIDENT & HONORARY EDITOR:

Dr. Alonzo H. Garcelon
133 State Street
Augusta, Maine 04330
207-622-1711

YE OLDE EDITOR

David D. Brennan
37 Burnham Street
East Hartford, Conn. 06108
(home) 203-289-8775
(work) 203-643-1157

COLUMNISTS:

Technical Editor

M. H. Walker
87 Dogwood Lane,
Lady Lake, Florida 32659
904-753-4254

Benchrest - Feature

Lt. Col. Rick Hornbeck
R.D. 2, Box 220
Pine Bush, N.Y. 12566
914-744-3978

"The Great Gunsmith"

Seely Masker
261 Washington Ave.
Pleasantville, N.Y. 10570
914-769-2627

"In House Gunsmith"

Fred Sinclair
1200 Asbury Drive
New Haven, Indiana 46774
219-493-1858

Wildcats in Legend and Folklore

Speedy Gonzalez
400 East Industrial Street
Comanche, Texas 76442
817-386-5863

Historian Emeritus

Al Angerman
2528 Deepwood Dr.
Wilmington, Del. 19810
302-475-4025

Ballistics and Philosophy

Jon Leu, Sinclair, Inc.
1200 Asbury Drive
New Haven, Indiana 46774
219-493-1858

Deputy Editor for Southwest

Robert Pease
P.O. Box 787
New Braunfels, Texas 78130
512-625-1342

Official Gunsmith on the

San Andreas Fault
Geo. M. Fullmer
2499 Mavis Street
Oakland, California 94601
415-533-4193

Official Gunsmith At The Alamo

Dale Hutcherson
1406 Wichita Street
Pasadena, Texas 77502
713-473-4881

Official Gunsmith In Suspenders

Harold R. Broughton
Rt. 1, Box 447
Big Spring, Texas 79720
(915) 394-4430

"High Velocity Stuff"

Allie Euber
Church Street
Orwell, Vermont 05760

Subscription Notices

Stella Bruchtel
5735 Sherwood Forest Drive
Akron, Ohio 44319
216-882-6877

Cover Photo

The INTERNATIONAL ACTION, as made by Charles Puff and Bill Wiseman, to be available in March, and reviewed in this issue (see pages 26-27).

Advertisers Index

Berger Bullets	12
Black Magic	10
Broughton, Harold R.	24
B-Square	20
Custom Products	19
Douglas Barrels	16
Dyna-Sports Div.	5
Fowler Shooters Supply	17
Hammonds Gun Shop	26
Hart Rifle Barrels	9
Hart, Robert W. & Son	13
Hodgdon Powder Co.	16
JGS Die & Machine	18
Keystone Supply	14
Masker, Seely	21
Matco	24
McMillan Rifle Barrels	22
MTM Molded Products	29
O'Connor Rifle Products Co., Ltd.	11
Pease, Bob	3, 20, 32
Pennebaker, A.E.	24
R&M Precision	15
Redding Reloading Equipment	20
Rochester Institute of Technology ..	12
Roller, Carl	9
Rorschach Precision Products	10
Schneider, Gary	3
Shilen Rifles, Inc.	15
Seeley, Vernon	5
Trading Post	29
Whitetail Design & Eng. Ltd.	25
Wichita Arms, Inc.	6
Wood Die Shop	28

EDITORIAL

"A fitting close to a gentleman's day . . . the contemplation of a few wildcat cartridges". (Source unknown)

The lead article this month, by Merrill Martin, while it deals with cast bullets primarily, should not be skipped over by the benchrest shooters. The section dealing with the preparation of match quality cases has much to offer the accuracy seeker. Back around 1970 my gunsmith of the period, Ted Boughton, used to beat into my head (with difficulty) his belief that there was nothing to be gained from neck turning to clean up side-to-side differences. Ted insisted that the fact that one side was thicker than the other in the neck area was indicative of the fact that the whole blasted case had the same condition increasing in severity as one progressed further down the case sidewall, and accordingly WOULD NOT SHOOT. The excellence of the PPC case, as today made by Sako, in Finland has got us away from this problem, but it most certainly remains for those of us trying Hunter class cases, or cartridge cases other than the PPC.

The Creighton Audette experiments in this area have been of tremendous value in setting us on a straight path, and the Merrill Martin article carries forward the Audette school of thought. Because the subject of extreme rifle accuracy is a very complicated one, with much to be learned from other groups seeking rifle accuracy. I urge you to read the Merrill Martin article; don't dismiss it as "just lead bullet stuff". The fellow obviously devoted a lot of his waking hours to the project for a couple of years . . . and it has a lot of wisdom for us.

On to other subjects. The notice in the November 1984 issue relative to the United States Benchrest Hall of Fame now being administered by Boars Head, and no longer being an NBRSA function was followed by the December article telling of seven shooters from the IBS section of things to be inducted into the Hall. The request was made for financial assistance from the shooters, as the cost of inducting seven new shooters into the Hall was going to be in the \$2000 range, and there was a desire to have a couple thousand dollars "in the kitty". It is regrettably indicative of the apathy of our ranks that the request for funding drew all of TWO donations. I was speaking to Skip by phone recently, and there could be no doubting that he was emotionally DOWN. Trying to brighten his day a bit, I said "I'll bet that I published the wrong address. There was probably dozens of donations returned to the sender because of that". I promised to re-publish

the address because I was sure that was the problem. Correct address: Boars Head, P.O. Box #233, Budd Lake, New Jersey 07828. For the record, I am aware that the IBS has sent along \$500.00 from its treasury.

When the match season comes to just about a standstill, there's nothing to do except gossip about equipment, and plan new rifles or other ventures. The Editor has been hearing a lot about equipment these days, so maybe I'll pass along some of the gossip that's come my way (and I'm sure that there is a lot that I've missed).

I hear from an excellent source that TASCO, a longtime scope manufacturer, is about to introduce a new 36 power scope very shortly.

John Bunch tells me that Dick Thomas, of Premier Reticule in West Virginia is about ready with two variable scopes, an 8x24 and a 12 x 36, each weighing about 19 ounces. A Texas shooter is reported as having one for testing at the present time.

The new Berger 68 grain bullets in .224 caliber are getting out into shooters hands, and you will find a report in this issue from Jim Griffin on the bullet. The Editor recently picked up the phone, and asked Walt Berger how good those longer .22 jackets were . . . because the best bullet-maker in the world can't do much if he has to work with inferior jackets. Walt tells me that he was finding their run-out to be in the .0003 area. To put that comment into perspective, Walt considers .0002 as being the run out for the best lot of 6 MM jackets that he has ever worked with to date. He also relates that in all his testing in times past, he has been unable to pinpoint any difference in accuracy between .0002 and .0003 runout jackets; he does feel that when the jackets get up into the .0004 runout area, yes he now can detect an accuracy fall off.

I am sworn to secrecy on this one, but there are at least a handful of shooters now experimenting with .234 caliber bullets. They have the barrels and the bullets. Most are using the PPC case.

Then of course we have the new action as is being produced by Bill Wiseman and

Charles Puff, and which is being reported on this issue. Bill Wiseman tells me that he expects to start shipping them on March 1st. The Editor ended up with serial #007, and has had it shipped direct to George Fullmer to put a 6 PPC barrel on it.

Wally Hart appears to be making some substantial changes to the long successful Hart 1A action. The bolt stop is moved forward, to roughly the rear of the loading port, which will allow faster reloading. Other action revisions include going to a model 600 size bolt, which is both shorter and faster than the previous size bolts. Talking to Wally about all this by phone recently, and Wally expressed the opinion that the small forward sleeve may not be necessary now, with the long bridge and short bolt size. The loading port is reduced in size, and the barrel thread is increased to an inch and a half. Bolts continue to be cone bolt type, and to carry a Sako extractor. The first of the revised actions, which really is correctly designated as "experimental" has just been shipped to Seely Masker, so we should be hearing some opinions soon from the direction of Pleasantville.

As is not altogether uncommon, just about all of our bullet makers are out of jackets at the moment, and while they would prefer to be working away making bullets on cold winter nights, instead they are reduced to watching soap operas on television. Sources tell us that jackets should be available shortly.

Finally, a short comment about the Remay cleaning patches that are advertised by Keystone Supply. A while back, Rick Hornbeck had persuaded the Editor to put a cleaning patch wet with Marksman's Choice through the barrel before a bore brush was passed through. This materially increased bore brush life and efficiency. Last summer Roger Gower persuaded the dumb Editor to make that first pass with a wet Remay patch, and the stiffer patch does indeed make a better choice for a "first pass". I've persuaded a few other shooters to try them at matches, and they have invariably gone off looking for Roger Gower to buy a supply of them.

Quality Pull-Buttoned Rifle Barrels in Stainless Steel

by

GARY SCHNEIDER

BARREL-MAKER

12202 N. 62nd Place

Scottsdale, Arizona 85254

(602) 948-2525

VOLUME II of THE BOB PEASE COLLECTION,

a spiral bound supplement on accuracy rifle shooting now joins the popular Volume I to help guide you on bedding, accurizing, case preparation, neck turning, scoping, loading and shooting techniques for rifle accuracy. Volume II is \$6.95 first class mail. Volume I still available at \$5.95 first class or get **both** for \$11.85 and save. Bob Pease, POB 787X, New Braunfels, TX 78130

CAST BULLETS IN A RUGER #1

By
Merrill Martin

It took five years of experimenting and testing, working with Ruger #1s and lead bullets, but as I write this, I have two Ruger #1s capable of one half minute of angle accuracy, at either 100 or 200 yards. I am talking about plain base lead bullets, fixed ammo, and with the first shot from a clean barrel into the group formed by the following shots.

I took these two rifles to the Coors Schuetzen Match 1984, and came in second place, in the benchrest portion. I lost by 2 points on a stupid error (on my part) that cost me 10 points right there. More on the match later in the article; I toss this in here merely to give some substantiation early in the article to what I claim for my rifle-ammo set-up.

There is no question in my mind that I can duplicate my results if I were to decide to build another Ruger #1 match rifle tomorrow. This is a reflection of my basic belief that it is not a case of a single hot-shooting rifle in my possession. Rather it is the evolution, over that five year period of a successful rifle and ammo combination.

We'll start the discussion with the rifle itself. The barrel must seat square against the face of the action, which in turn must be dressed off square to its threads. The breech block must come up snug against the end of the barrel, and bear all around. The chamber must be a close neck fit, and the throat a long gentle taper. George Fullmer did all the metal work on both my Ruger #1s, and completely understands what has to be done.

I did the bedding, sights, and trigger work myself. The butt stock is epoxy bedded. The work on the fore-end was long and frustrating. This area of the Ruger has been known to make strong men weep . . . or swear . . . or drink . . . or all three. My final, evolved system does work . . . whether the gun is hot or cold, shot off the bench, or off hand; and it is relatively easy to fix if any warpage develops. Using Devcon plastic steel, or aluminum putty epoxy, the fore end is bedded against the action and against the hanger, but held away from the barrel. The angled fore end screw then pulls the fore end against the hanger and back against the receiver . . . actually stiffening the fore end, which is now floating with at least 1/16th inch clearance around the barrel. The next step is to bed the tip of the fore end against the barrel with RTV Silicon Rubber. The secret is to neutral pressure bed it. By this I mean that the rifle is left standing on its butt in a vertical position while the RTV rubber is hardening.

The fore end can be removed and put back on easily, without disturbing zero. It is also easy to check for warpage in the vertical position by simply pressing in various directions to see if the movement is equal all ways. I believe that one of the main keys to success is the release agent for the epoxy and RTV rubber.

One of the great discoveries of my life was Crown Industrial Products Company's #8040 Vinyl strippable coating spray, in spray cans.

Anyone who has ever sweated through a bedding job, and worried about getting it apart, your life is about to become much easier. Whatever release coating you put on the action will later have to be removed after the bedding job . . . leaving a little clearance . . . not a perfect fit. Also some times they just plain fail to release, and will stick. This vinyl coating is amazing. I've done dozens of guns and never had a problem. The vinyl sticks to the epoxy or RTV rubber, and easily strips from the steel. A perfect fit! It is a fast drying paint that is ready for use in about ten minutes. An air hose will blow air under the left over areas and lift or strip it off. Or a little thinner or a little rubbing with steel wool will curl it right off to clean up the job. For screws and threads I just rub on a bit of bullet lube, which keeps them from having the epoxy harden in those places.

Getting back now to the barrel, it must not be torqued real tightly into the action, or stresses will be set up, and the chamber will collapse slightly. The solution is quite simple; make a close thread fit, and have everything just right, with a "hand only" tight screw-in fit. Then remove the barrel, and apply Loctite #222 thread locking compound. Be sure and use "activator" which has been allowed an hour or more to dry. If the activator has not dried and set up for at least one hour, the fit will not be tight. I know that the instructions say 5 minutes but take my word for an hour at least; I made tests.

Now you have a barrel that is mounted without stress or strain, and which can be removed with the usual wrench, but not so tight as to require heat or do damage.

Those two Ruger #1s shoot Sierra 168 and 190 grain match bullets on out to 200 yards under a half minute of angle, and never a flyer. Of course part of the "no flyers" credit has to go to Creighton Audette, and his system of case head and wall sorting. (Editor: it seems that more and more shooters are saying the same thing these days. For details, see *Precision*

Shooting issue of December 1981).

Using Creighton's system, I was only finding about one case in ten that was accurately made. Those selected cases certainly did shoot well, however.

The solution was to full-length TURN the cases. Having a machine shop in my basement sure helped. For my .30-30 cases I started off with .375 Winchester brass, expanded them up, then turned them straight on a mandrel in the lathe to 1/2 thousandths limits for wall thickness. Finally sized them back down to 30/30 specs in a series of steps, and ended up with super cases.

So much for the rifle, and the cases. On to the bullets. From reading the Lyman books, making lead bullets looks sort of easy. One then goes out and buys a lead pot, sizer, bullet molds, dies for the sizer, gas checks, lead, other metals, special grease, and other assorted paraphernalia. What they didn't tell you was how to make accurate lead bullets consistently. The reason? Very, very few people know how. I believe that I am beginning to know how. I have read every book on the subject that I could get my hands on, as well as hundreds of magazine articles. I belong to the Cast Bullet Association, the American Single Shot Rifle Association, and the NBRSA. Each group contributes a bit of the information that is needed in the sum total. But accurate, plain base lead bullets are sort of an orphan. All the target shooters of earlier days abandoned them as soon as they could, going instead to gas checks, paper patch, or jacketed bullets. This is about the era when the Schuetzenfest matches were declining in popularity; the 1910-1920 era. The target shooters demanded an accurate, reliable product . . . and plain base lead bullets! for 200 yard shooting did not match that description. Davis and his Brinell hardness tester has to be the greatest. The NRA books on hardening lead alloys simply do not go far enough. I have found that you can treat lead just like steel. Heat and quench it to harden, reheat at a lower temperature to temper it back to a uniform medium hardness. Age wise, it stays put for years. Scovill's article on the subject, in *Handloader* magazine No. 111, Sept.-Oct. 1984, entitled "load alloy" confirms my finding completely.

In discussions on the subject of lead alloys and hardness, everyone leaves out one very important aspect . . . how uniform is the bullet from one end to the other . . . and from side to side? When it is cast . . . and when it is shot? In my basement

shop, I started milling a flat on each side of my cast bullets so that I could make the Brinell test indents from nose to base, with several in between these two points. This is where I found things happening that caused my hair to stand on end. We thought that we were being real smart with our alloys, and testing our samples, etc., and holding the BHN to less than one number.

BUT . . . for the first several days after casting, the bullet may have a reading of 10 BHN from end to end. However after a couple of weeks, the reading on the nose end may be 10, and the base 14 or 15, and an 11 reading in the middle. And not at all uniform from one bullet to another. Using only a tin-lead alloy, this is not a problem. Unfortunately, to get what we wanted, we needed an antimony-tin alloy for the hardness and the heavier weight.

Heat-treating at 450 degrees for two hours and then a water quench would produce a bullet where the BHN would not vary a half number for the entire length of the bullet.

But this was around BHN 21 or 22 for my alloy . . . too hard. Putting them back into the oven, like a piece of steel, and heating to 300 degrees for an hour . . . then turning off the oven and allowing them to cool down real slowly, produced a very uniform BHN of 16 for their full length.

After reading Dr. Mann's book, I just had to build a sawdust box to catch bullets. I've had it now for about 10 years, and it is a real education. It is amazing that we can get bullets to even hit the target, when you see the damage caused by crooked seating and gas cutting. I found a sawdust compound that is unique; better than Dr. Mann's. It stops the bullet micrometer perfect.

I have stopped .458 Winchester magnums, .375 H & H solids . . . even military .30-06 armorpiercing, and all in an eight foot long box of sawdust. The material is called Floor Sweep, and is green in color. I think that is contains oils and waxes mixed with the sawdust. If you get the red colored product, you will have a disaster . . . as I know from experience. It contains sand, and will grind the rifling off the bullets. I have found only one bullet design or caliber that will penetrate this full length of the sawdust . . . Elmer Keith's 44 caliber 250 grain SWC just makes it to the end.

I found out why more people do not have oiled sawdust boxes. It's one devil of a job to locate the bullet in all that sawdust! There is however a simple solution . . . do not use any nails or metal when you make your box . . . glue and peg it together, with leather hinges for the top. Then buy a simple metal detector, and you are now in business. Instead of an evening looking for a bullet, it's only a minute or two, and you are not covered from head to foot in oily sawdust.

All this leads up to one subject . . . gas cutting the base of the bullet, and of course loss of accuracy, and loss of velocity. The sawdust box really shows it up. This will surprise many, but gas check bullets seem to suffer the most damage in this area.

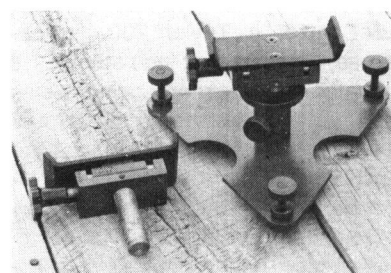
The early writers all made reference to the practice of using wads behind their bullet, or over their powder. All kinds of wads . . . grease, wax, card, felt, anything. They were right! I tried IPCO grease wads for years, with some success, thin felt wads, soaked in hot bullet lube, worked great behind my .44 Mag lead bullets, raising my velocity, increasing accuracy, and reducing leading. After a couple of hot

days, I decided that I needed something that would not melt down on to the powder, thin plastic sheets, 1/16 or 1/32 material had worked great. Presently I am using Teflon sheet, but other similar materials seem to work well, and do not melt.

I even found a grease to replace the famous NRA Alox, which melted all over the place, on one hot shooting day. It's a Texaco product, called Taurax #250; it feels like any other regular bullet lube, but it takes 400 degrees to melt it and it is really clean . . . I use this product as my regular grease these days, since I haven't found anything better.

Another item of interest that helped close up the groups was the coating applied to the lead bullets after hardening, and before

Continued on page 6



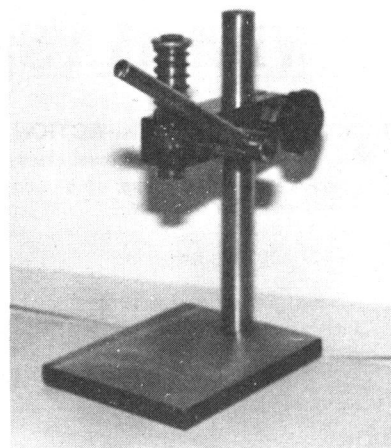
The OSAGE front rest

Moves horizontally as well as vertically.

No more moving the rear sandbag, all needed adjustments are in the rest.

Complete rest — \$125.00

Top only, for Hart or Wichita
(specify which) — \$80.00



The OSAGE Arbor Press \$47.50

VERNON C. SEELEY

Box 6, Osage, Wyoming 82723

Phone (307) 465-2264

DYNA-SPORTS DIVISION

• PRECISION SHOOTERS SUPPLIES •

★ SPECIALIST IN ACCURACY ★

YOUR "ONE-STOP SHOPPING CENTER" FOR PROVEN QUALITY PRECISION PRODUCTS BY R.W. HART & SON, SINCLAIR, NEIL JONES CUSTOM PRODUCTS, SHILEN, L.E. WILSON, BEN BURNS, A.L. DAVIDSON, METZGER BULLETS, LEE SIX STOCKS, McMILLIAN STOCKS, HALL ACTIONS, HART BARRELS, MARKSMAN CHOICE BORE CLEANER, MITUTOYO MEASURING INSTRUMENTS AND OTHERS.

"FOR INFORMATION CALL"

1-713-895-0064

SEND #10 SASE FOR PRICE LIST

P. O. BOX 40337, HOUSTON, TX 77240-0337

lubricating. It started as an anti-metal-fouling coating for jacketed rifle bullets, and it just happened to work well on lead bullets.

It is applied by rotary tumbling the bullets for several hours in a mixture of steel shot, Moly powder, and corn cob grit. This proved to be so successful and unique that I applied for and received U.S. patent number 4454175 on the process. A secondary tumbling with shot, grit, and carnuba wax, helped to hold back leading from the lead bullets as velocity was increased. Even though the corners of the bullets were a little peened from all this, the accuracy got better, and that is what counts.

Now the sequence was: 1.) cast, 2.) sort, 3.) weigh, 4.) size, 5.) spin for runout, 6.) harden, 7.) draw, 8.) tumble with Moly, 9.) tumble with wax, 10.) lubricate.

In the process of casting the bullets I went one step further than most, and inserted a thermometer in a hole that I drilled in my bullet mold. A Taylor 200 degree-1000 degree, 2 inch dial, 2 inch stem x 1/8 inch diameter. I was already using a dial thermometer in the lead pot, and had found that 800 degrees to 825 degrees was the best range for my approximate wheel weight, one per cent tin alloy. This was another revelation . . . the NEI aluminum mold settled down best in the 400 to 425 degree range. The amazing result was that the weight spread was reduced from 2 grains spread to 3/10 grain spread simply by holding the mold temperature nearly constant. I continue to weigh all my bullets, as there still is the occasional light one with a void in it (approximately one in fifty). Any

bullet that has more than .001 body runout in the final product is discarded; only one in ten gets rejected . . . not too bad.

Of course there just does not exist a good reference work to go to on the subject of how to make wads. Buy a punch that is one size smaller than needed. Next, true it up in a lathe four jaw chuck. Mount a tool post grinder to true up the OD and nose. Change over the grinder to the internal quill-attachment, so that the ID of the punch can be ground out to .002 inch larger than the bullet (not the bore). Of course the ID of the punch must be relieved, or the wads will stick and wedge. A flat, .002-.003 inch wide must also be ground on the edge of the punch to prevent the end from burring over.

A sloppy wad punch makes sloppy wads, and ultimately a sloppy group. Wad material must have reference lines drawn on it for spacing, and also to indicate the direction the wad must be loaded in the case (in reference to the direction that it was punched from).

The cartridge case for fixed or breech-loading lead bullet shooting requires all the attention to detail of the benchrest case . . . and more so. A study of the success of the PPC case over the last ten years in the benchrest world should turn up, as a major factor in the success story, the very uniform cartridge cases turned out by Sako. I question if any truly accurate cases are available in American made brass today. That is a strong statement, but the research of Creighton Audette on the subject, using the measuring gadget, proved it to me at least. With a lathe in your basement, and

a bunch of GI brass or other brass, the solution is simple. Lathe turn the length and head of the cartridge case true with the ID. Unfortunately I have not yet figured out how to do this for a full length 30-06 case. Shorter cases are made from the 06 by cutting off the neck, and expanding up, turning them, and then re-sizing back down. I've done this for several years now making .308, .243, and 6 BR, all without any annealing of the brass. I use several steps in down-sizing, plus neck dies that have been opened up to reduce the working of the brass. These cases have been reloaded dozens of times, and only a few split necks have taken place, and these were traced to short cutting the original sizing operation.

I save the few good 30-06 cases for the 06 rifles, and the rest get cut off and turned.

How important is all this to accuracy? Well, as a practical example, how would you like the chamber of your rifle out of line with the bore by .010 inch? Carry that thought a bit further . . . out of line in a different direction with each shot? Cases with wall thickness variations of .010 inch AND MORE are not at all uncommon. I just tested some newly manufactured .308 brass, that is sold as "match" brass . . . and it ran up to .014 variation. What this does is to put the powder gas thrust backward against the breech in a different direction from shot to shot. Now you know why the top shooters carefully select a few good cases, and use them over and over. After measuring thousands of cases, you come to realize that there are not too many good ones.

By cutting and trying I shaped an expanding plug in the lathe that (when mounted in my loading press) would expand the brass in such a way that later I could take a straight cut on the OD and have case walls tapered in thickness just like the factory intended. My indication of a successful contour was the faint witness marks left on the cases where they did not quite clean up on their thin side. In other words I am not making the cases any weaker than they already were; just uniform. Case weight variation suddenly switches to a greatly reduced figure as a side-benefit.

I have found that some rifles are more sensitive than others to this case problem. I dragged out of storage a couple of sporting rifles that never had been any great shakes in the accuracy field, fired them with turned brass, and suddenly the two of them started shooting like match rifles. The only change was that they were fed either turned brass or the few precious sorted cases.

The Coors match was the most demanding match that I have entered, including International 3 position, 300 meter high power, in which category at one time

Continued on page 10

WICHITA'S

SUPERIOR BENCHREST ACTIONS

THE WICHITA MINI-ACTION

Perfect for the 10½ pound classes

- Receiver 1.375" in dia. - 5.5" long
- Shell holder bolt face
- 1 lb. 13 oz.

\$240.00 Plus Shipping



THE WICHITA WBR 1375

- Receiver 1.375" in dia. — 8.5" long
- Steel Extractor
- 2 lb. 10 oz.
- Opposite-side ports available in right hand or left hand model 1375's

Priced Extra

\$350.00 Plus Shipping

Both actions finished in white. Bolts feature 3 locking lug-design. Suitable for Canjar or Remington triggers. Barrel thread size 1" 16 NF - 3 X 1" deep.

Precision Rifle Rest

Cast iron and steel . . . 11 lbs. . . **\$79.95**



For more information, see your local dealer, or write Wichita

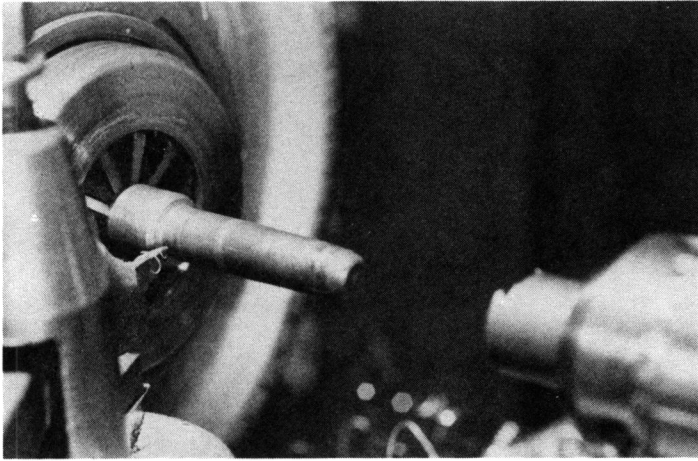
WICHITA ARMS, INC.

DEPT. PS

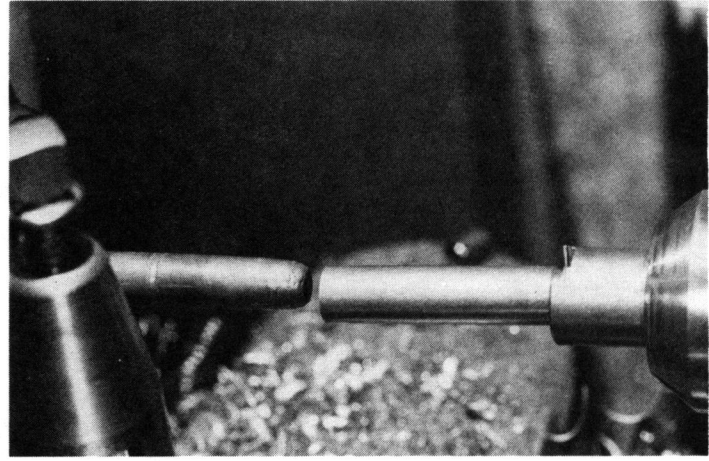
P.O. BOX 11371

WICHITA, KANSAS 67211

PHONE (316) 265-0661



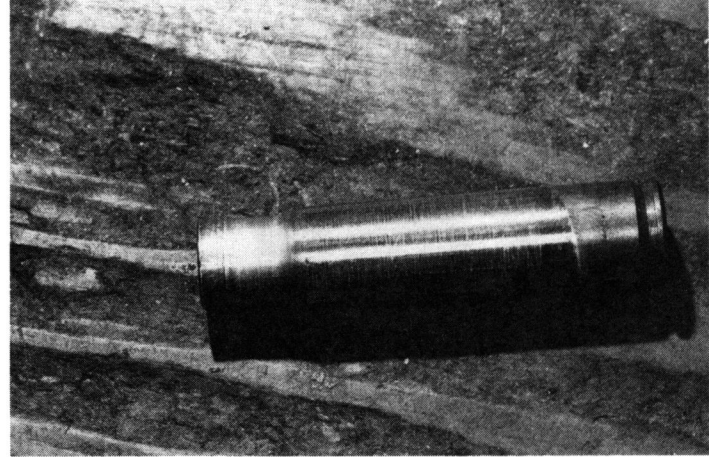
Turning mandrell in collet.



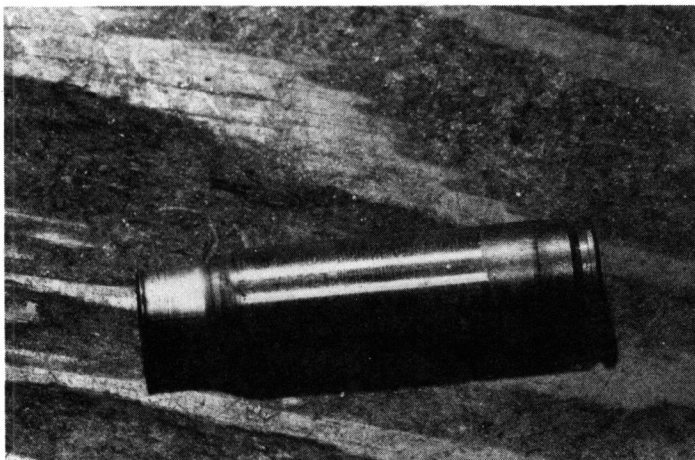
Case ready to slide on.



Trueing cut, leaving witness



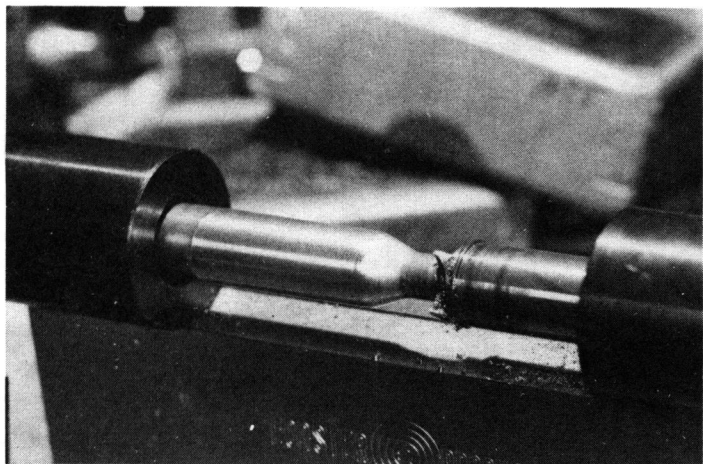
Progressive neck sizing, .35 neck.



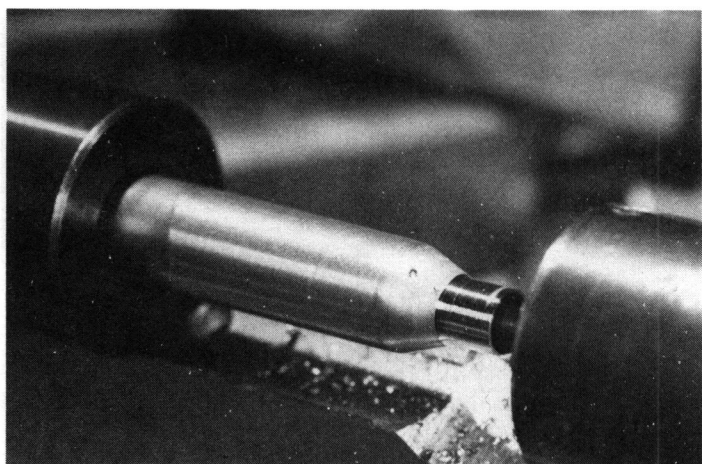
.30 neck



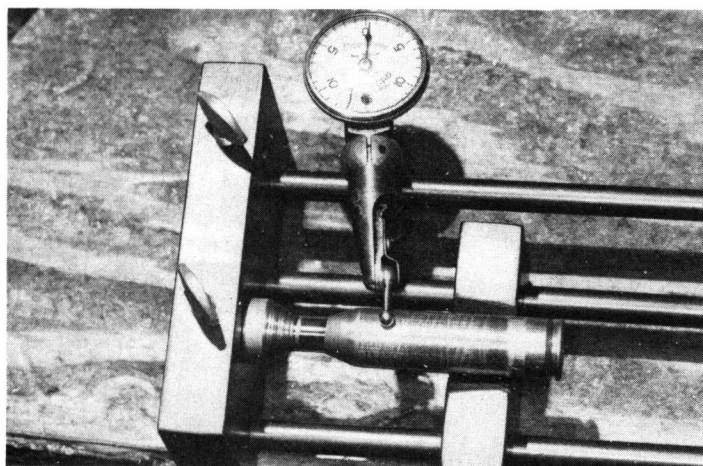
.243 neck



Trim.



Neck turn.



Final check.



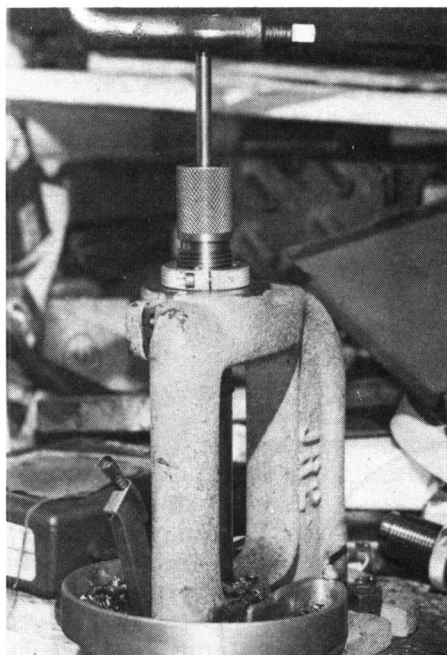
Making the initial cut.



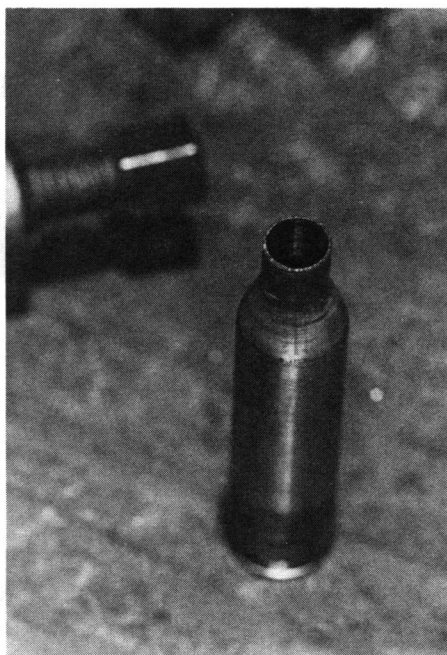
Cut running out, and showing case runout.



Expanding plug, shown with an 'OG case cut off, and an expanded case.



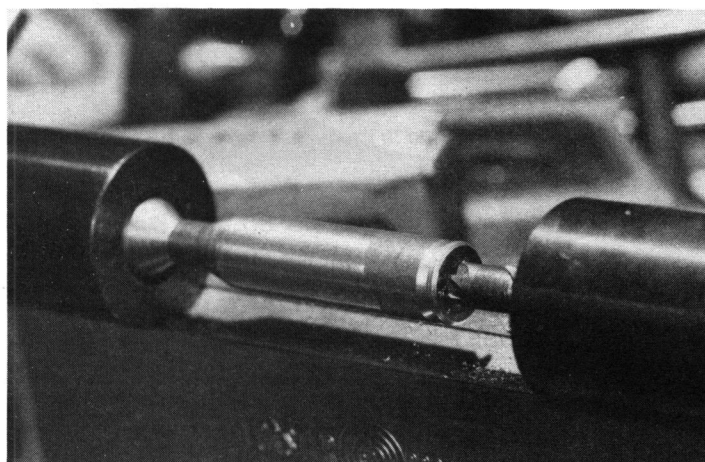
Neck ream after sizing.



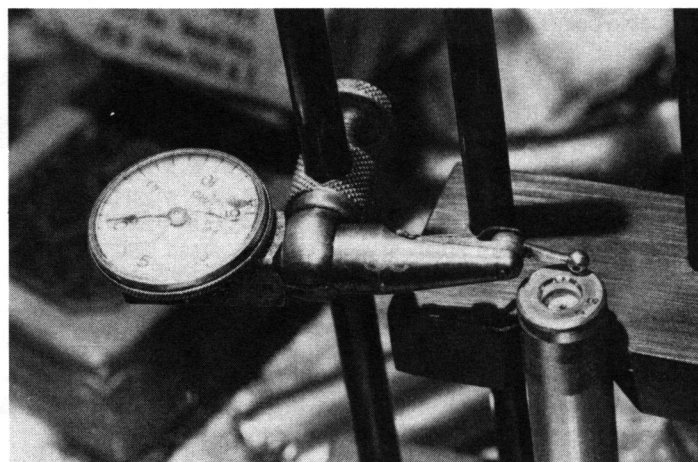
Interior ream



Head check

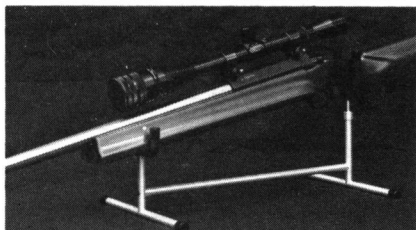


Primer ream



Head check

TAKE-DOWN CLEANING STAND



PROTECTS RIFLE FINISH
HOLDS RIFLE AT CORRECT ANGLE TO HELP
KEEP CLEANING ROD STRAIGHT
ADJUSTABLE FOR HEIGHT
DIS-ASSEMBLE WITH 4 SCREWS AND
CARRY IN SHOOTING BOX

\$35.00 + U.P.S.

ALSO PRECISION CHAMBERING
AND BARREL WORK, REMINGTON ACTION
RE-WORK & SLEEVES.

CARL ROLLER

429 N. ASH 602-833-7818 MESA, AZ 85201



HART RIFLE BARRELS, INC.

Stainless Steel Rifle Barrels

PRECISION STAINLESS STEEL MATCH TARGET BARRELS

AVAILABLE IN .224, 6MM, 6.5MM, 7MM,
.25 and .30 calibers, also .22 rim fire.

Gunsmithing services and complete custom
target and sporting rifles available.

For prices and particulars, write:

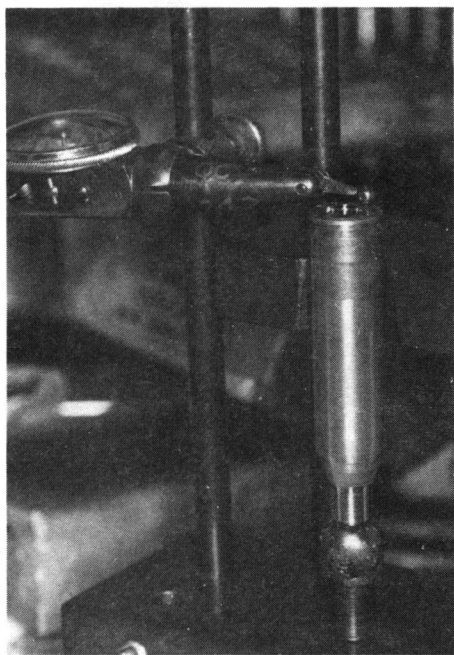
Hart Rifle Barrels, Inc.

LaFayette, New York 13084, R.D. No. 2

Telephone 315-677-9841

Continued from page 6

It has however been a unique and satisfying bit of research. Now I've got to drag some of my neglected bolt action match rifles out of mothballs, and apply what I've learned from the single-shot, lead bullet game.



Head check

Scout
NATIONAL SCOUTS' MEET CHAMPIONSHIP
MATCH 1984
**OFFICIAL
200 YARD TARGET**

BC
TARGET NO

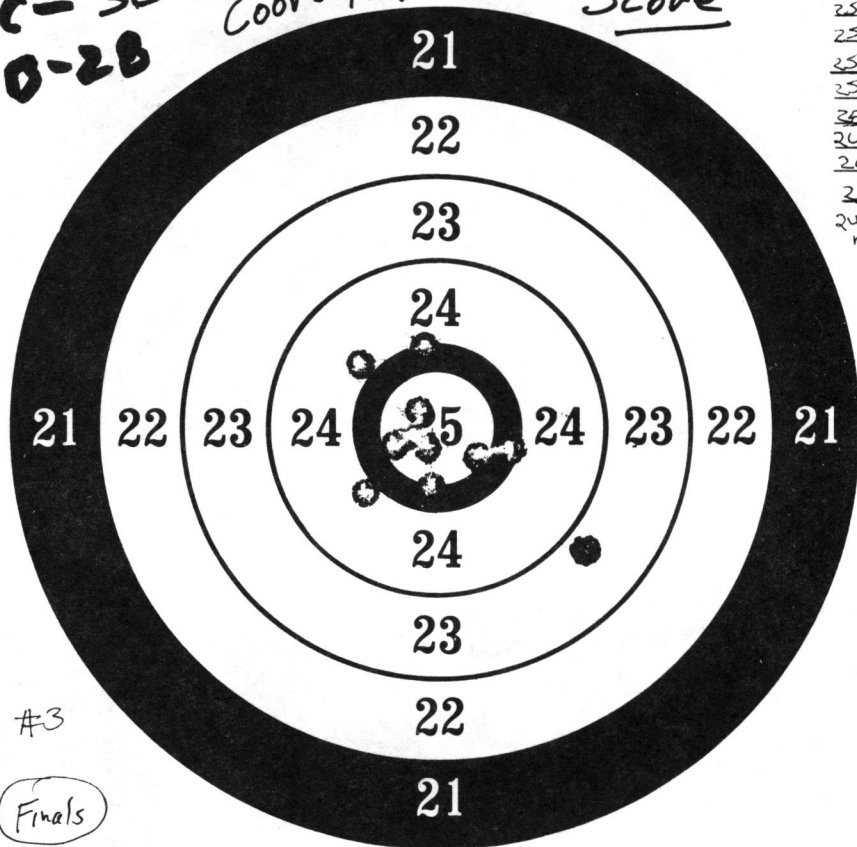
DATE
C-30
0-28

Coors Aug 1984

Score

SCORE

25 25
25 25
25 25
25 25
25 25
25 25
35 25
24 24
24 24
23 23
24 24
m.s. 7



JAME M D Martin

IFLE Ruger #1 CALIBER 30/30 1:12 Twist SIGHTS 24X
 ULLET NEI 190 30th PB Metal 16 BHN LUBE Texaco Tarek POWDER 4259 CHARGE 16 GRSS
 RIMER Fed NO. 2104 LOADING METHOD: Fixed ☒ B/S _____ in, M/L _____ in, Wad 1/2

THE AMERICAN SINGLE SHOT RIFLE ASSOCIATION

A Coors target from Merril Martin. The range is 200 yards, and the bullets are cast, plain base.



BLACK MAGIC
BOX 2
WESTWOOD, MA 02090

is delighted to deal with
you or your supplier for

SWEET'S 7.62 SOLVENT

(See P.S. 2/83 Pg. 8)

S.A.S.E. FOR DETAILS

RORSCHACH CARBIDE DIES

\$1.00 for brochure

Rorschach Precision Products
Box 151613
Irving, Tx. 75015

BENCHREST SHOOTERS OF THE YEAR 1985

Yes, Virginia, we are gonna do it again. No, Virginia, it will not be the same as last year. A great deal alike, but after a couple of years with the exact same set of rules, it was time for a small face-lift.

There will once again be three double-point matches . . . Super Shoot, NBRSA Nationals, and IBS Nationals.

Same scoring rules as before . . . one point for a yardage, two points for a grand agg, two points for a multi-gun award (provided that the host club actually gives out such an award). These points will be doubled for the three matches above.

The NBRSA keeps their same three matches as before; the Nationals, The Cactus Classic, and the Crawfish. PLUS One more, I have discussed this with Walt Berger, and I've told him "The choice is yours, I would prefer it to be a good sized match, hopefully with a goodly number of competitors" After a certain amount of time in a trance, and after consulting with a Medium, as well as an Ojibwa Medicine Man in a dark cave, to say nothing of reading a secret message found in a box of Cracker-Jax, Walt Berger has selected as the President's pick for this year the Mississippi Valley Regional, to be held at the St. Louis facility of Art Freund and his gang. The 10½ pound class will be contested on September 7th, and the 13½ pound class on September 8th. There will be a two gun award.

The IBS gets the same treatment as the NBRSA, namely . . . four matches. The IBS Nationals certainly, and hidebound old traditionalist that the Editor is, the September shoot at Johnstown stays in the schedule. I have told Jim Borden . . . "you pick the other two". This will be done as soon as the schedule is finalized at the winter meeting, and will be reported on in the next issue.

So we have grown a tad, from seven matches to nine matches; 4 NBRSA, 4 IBS, and the Super Shoot. The Editor has relinquished a bit of control to the two Association presidents, and we're still trying like heck to treat everyone fairly.

The winner will get a handsome trophy, and the November cover. Don Geraci will be back, trying to make it three in a row. And Jon Leu is talking about "getting serious" this year.

Match Advertisement

Clubs holding either an NBRSA or IBS registered match may advertise in P.S. at substantially reduced rates from our commercial schedule.

The fee schedule for clubs for 1985 will be:

Full page	\$110.00
Half page	\$ 55.00
Quarter page	\$ 30.00
One sixth page	\$ 20.00

There's no big procedure to follow. Write out what you want your ad to say, what size you want it, and when you want it run, and we will take it from there. Send to the Editor.

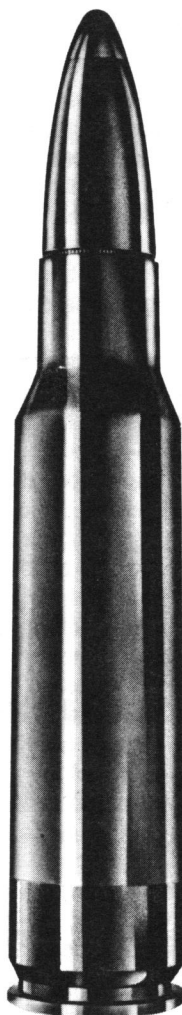
Give yourself adequate lead time. For instance, if you want an ad in the July issue, the ad copy must be in our hands by the end of May.

The Editor

**NO
FFL**

A TOTALLY NEW CONCEPT IN HANDLOADING

INCREASES POWDER EFFICIENCY AND VELOCITY



ALL NEW STAINLESS STEEL DETACHABLE HEADS WITH BOXER PRIMER POCKETS

Bringing you a revolutionary concept in custom handloading, O'Connor Rifle Products introduces their new line of detachable stainless steel heads. Because they're made from tempered stainless steel, they'll withstand much higher pressures than conventional brass heads. This allows greater powder efficiency, increased velocity and safer operation. Sizing is with conventional steel dies.

These "Steelheads" are supplied with replaceable, straight-sided virgin brass cases ready to form to your caliber and long enough for .280 REM (Standard) and .375 H&H Magnum. Presently available in 30-06 and 7mm REM MAG head sizes; .222, PPC and .308 (small primer) coming soon. Also available in .50 MG upon special order.

SHIPPED IN BOXES OF FIVE:

STANDARD: \$14.95 MAGNUM: \$16.95

REPLACEMENT BRASS, FIVE PER BOX:

STANDARD: \$ 4.95 MAGNUM: \$ 5.95

Add \$1.50 postage and handling to all orders.

Send SASE and 40¢ postage for 30-06 test data and loading recommendations.

CALL TOLL FREE

1-800-845-6112

**FOR ORDERING
AND INFORMATION**



O'CONNOR RIFLE PRODUCTS CO., LTD.
2008 Maybank Highway
Charleston, South Carolina 29412



Visa — MasterCard — American Express
DEALER INQUIRIES INVITED

BASIC SHOOTING STYLES

November 19, 1984

To: Twenty or so successful shooters

Re: some needed input

Dear shooter,

It's been three or four months since I last came along, bothering you. The last subject was "bullet seating depth", and it was, to judge from reader's response, one of the most popular and read-and-reread articles that we have ever published.

I cannot too strongly tell you what your input means . . . not so much to the magazine as to the shooters. When an article is published from one writer, it doesn't matter if he is the finest shooter in the land, it is still just one fellow's opinion. When we are able to bring forward twenty different opinions, we are able to present, not an article, but rather a twenty person debate.

I ask for your continued assistance, and encourage you . . . in your replies, to just go ahead and ramble as you will. I'll do the necessary polishing, and between the two of us . . . we'll come up with something entirely presentable, I promise you. Funny stories, anecdotes, personal experiences, prejudiced opinions, chauvinistic opinions, whatever you feel like tossing in . . . go ahead and toss 'em in there . . . I'll separate the wheat from the chaff.

Okay, here's the questions this time around:

- 1). How would you describe your basic style of benchrest shooting? Free recoil? Mild hold? Firm hold?
- 2.) Describe your holding of the rifle at the bench. Does your basic method of hold vary at all when you go down to a ten and a half pound rifle . . . or go up to an unrestricted gun? If so, how?
- 3.) If you shoot "free recoil", describe your front sandbag set-up. Do you prefer no contact of sides of sandbags . . . or do you like them snug, with a bit of "guidance" of the rifle in recoil?
- 4.) How would you describe your basic "holding" on the target? Do you attempt to find a certain condition, and fire your five record shots in that same condition . . . holding on the same aiming point? Or do you make a practice of "holding off" varying amounts during the course of firing your record target?
- 5.) Comment on your beliefs and opinions relative to question #4, please.

Thanks for your help!

Dave Brennan
Editor



NRA GUNSMITHING PROGRAM
AT

ROCHESTER INSTITUTE OF TECHNOLOGY

NRA/RIT SUMMER GUNSMITHING WORKSHOPS

FEATURING: **JERRY HART** OF HART RIFLE BARRELS
ONE WEEK WORKSHOP ON FINE TUNING OF
MATCH AND VARMINT RIFLES — JUNE 21-28, 1984
AL HAUSER ONE WEEK WORKSHOP IN BLUEING
AND POLISHING — JUNE 21-28, 1984

FOR INFORMATION ON THESE AND OUR OTHER SUMMER OFFERINGS, WRITE:



Dr. Robert H. Johnston, Dean
College of Fine and Applied Arts
Rochester Institute of Technology
P.O. Box 9887
Rochester, NY 14623

BERGER BULLETS

22 CAL. 52 GR.	\$8.25 PER 100
6MM 62&68 Gr.	\$9.00 PER 100

Distributor for J-4 Jackets

Lead wire .185 Diam.
½ of one percent antimony.

Three foot strips.
\$25.00 per 25 pounds.

POWDER

T335 T2208
\$56.00 per 8 pounds

PRIMERS

FEDERAL 205M
\$14.50 per thousand

Bullet Making Lube

\$10.00 — 5 oz. jar

UPS Charges Invoiced

Send FFL with order

4234 N. 63rd AVE.
PHOENIX, ARIZONA 85033
(602) 846-5791

*Distributor for
Marksman's Choice bore cleaner*

LOWELL FREI

Dear Dave,

I must be your biggest fan when it comes to articles written by the competitors. They are always interesting, and I believe that if I can learn one small thing here and there, it may be the very thing that allows me a respectable placing, instead of the feeling of having accomplished nothing when the match is over.

Regarding my style of shooting . . . this is kind of unusual, but the truth will out, so I might just as well tell the truth . . . I hold the rifle. (Editor: I knew that sooner or later someone was going to admit to this kinky practice). The lighter the rifle, the tighter I hold it. (Editor: easy Lowell; certainly confession is good for the soul . . . but let's not get carried away here). This method does not net as many small groups, but for me it does produce more consistent results. Out here in the West we have wind with heavy mirage as our usual condition. Very often, if you can shoot fast when a favorable condition turns (briefly) up, it can be most helpful . . . and holding a rifle is definitely the faster style. I must confess that whenever I encounter a really good set of conditions at some range or other, the kind of "aggs in the teens" conditions, I usually get killed by someone shooting free recoil and not touching the rifle. Back to the old saying "if it works".

As to my hold on the target, I would prefer to catch a nice steady condition, and shoot all five shots in that exact condition. Since this is rarely possible, and since waiting for a condition that is similar . . . but just slightly different . . . which will require a sighter anyway . . . and considering the anxiety we generally have to deal with while we wait . . . not to mention the fact that we may end up becoming short on time, and forced to finish in a condition that may be much worse . . . I believe that we should be aggressive enough to go to the sighter target, ascertain where to hold, and finish the group. (Editor: Lowell, you really got all worked up there, buddy; that was a heck of a sentence. Here, sit down, and take a few deep breaths . . . that must have taken a lot out of you). This of course is based on the presumption that the changed condition that you are facing is STEADY and RELIABLE. For instance, while it may sound strange to the newer shooter, a left to right condition that has switched to a right to left condition WITH THE SAME VELOCITY is probably relatively easy to deal with. But, most shooters will wait for their starting condition to return. If it doesn't return, they may get into trouble in one of the other areas that I've mentioned. Especially . . . time. If it does come back, and find the shooter waiting, the chances are

that he will not end up any better off anyway. To me, probably the most important reason to stay aggressive is that it forces you to concentrate on shooting, instead of worrying about the forty thousand things that can go wrong. If I have to sit there and wait . . . I'm a basket case anyway.

Dave, you asked for beliefs, and opinions. I'm glad you did not ask for solid answers . . . because there are no solid answers in these areas. It's what works for you that counts.

FLETCHER WILLIAMS

Dear Dave,

Thanks again for including me in the group of "twenty or so successful shooters". I can't say much for myself, but those other guys sure can shoot!

You asked what was my basic style of benchrest shooting. Well it has best been described (by others) as reckless and regardless. I take chances, and sometimes in spite of knowing better, I'll fire a round into the record target.

For a considerable period of time I have admired those guys who can shoot the gun "free recoil", and change elevation by adjusting the front rest. I tried that once, and do not wish to ever discuss the results. Perhaps having fat hands, arms and neck makes one hold the rifle. Seriously, for the most part I do use a mild hold, but have been known to shift into a basic "death grip". However this only applies to "rat guns" and heavy varmint rifles; with my unlimited class bag gun, I just aim her and touch it off.

I suppose that, like most shooters, I prefer to shoot a certain condition . . . if I can just find it. As a matter of record, I like to shoot a right to left condition . . . which is only natural since I am left-handed. If the condition is holding, I will fire all five shots, holding the same aiming point. Again, I think most shooters would prefer to do it this way. If I have to hold off, I will do so. If it seems to me, before the "commence fire" command, that I am unlikely to be able to get off five shots with the same aiming point, I will foul my barrel using the "S" on the sighter target. Then, if conditions go to hell in a handbasket on me, I have a clean sighter target to "chase" my shots with. I can only admire those among us who can "hold off" on a very regular basis.

I strongly feel that new shooters get themselves into real difficulties by thinking that the apparent "lulls" are the best time to let them fly. I think that I shoot better groups when I can see something out there.

Continued on page 14

HART

*Product
of the Month*

HART PRIMER DEPTH REAMER

**Small or
Large Primer
(Specify)**

\$8.95

**Feb. 15 - March 15th
Special**

(717) 752-3655

BENCHREST GUN WORK . . . OUR SPECIALTY

Hart Actions - 4 styles
Action Cleaning Tube
Benchrest Pedestals
Neck Turning Tool
Flash Hole Deburring Tool
Primer Pocket Cleaner
Primer Sealer
Hart Benchrest Bullets
Custom made in .224 cal. 52 Gr. BT
6mm cal. 62 Gr. BT
6mm cal. 70 Gr. BT
Remington 40XB and 40XB-BR Target Rifles
Sierra Bullets
Nosler Bullets
Federal Match Primers
Remington Match Primers
Federal Match Cases — cal. .222 and .308
PPC Cases Available
J. Dewey Ramrods
Bonanza Products
MTM Products
Lyman Products
Brass Core Wire Brushes, Rifle and Pistol
Leupold Scopes

**WE HANDLE BENCHREST
SUPPLIES AND EQUIPMENT
OF PROVEN QUALITY.**

NEW — L.E. Wilson Products
We are now handling the Wilson Products.
Listing in our 1984 catalog.

FREE CATALOG

Mailed catalogs - send \$1.00 for postage

Dealers' Inquiries Welcome — Send certified copy
of Federal Firearms License
for dealer prices.

**ROBERT W. HART
and SON, INC.**

401 MONTGOMERY ST.
NESCOPECK, PENNSYLVANIA 18635
(717) 752-3481

BASIC SHOOTING STYLES

Continued from page 13

SPEEDY GONZALEZ

Dear Dave,

I will possibly confuse your readers more than help them, but I'll be happy to give your inquiry my best shot (no pun intended).

Of course, being left handed I do everything backwards anyhow. But I do feel that, to be competitive in today's competition, one's basic method of holding his rifle (at the bench) must have a certain basic style or method, and stay with it . . . and yet one must be flexible enough in his thinking to be able to make some slight changes to deal with changing conditions. Here in Texas, on a typical match day, we'll start off with just about a dead clam, but as the day goes on, we know that we likely will be shooting in 35 m.p.h. crosswinds. I vary my hold and style accordingly, as the day goes on.

Another factor that comes into play in such a discussion is whether we are shooting a 6 PPC sporter or a .308 hunter class rifle. The rules change pretty fast when recoil like that of a .308 in a light rifle is to be contended with.

To answer your second question: my normal hold at 100 yards is completely different from my 200 yard hold, as I feel that one must have a completely different strategy for each yardage, if you hope to win in today's competition, where the difference between first place and tenth place may be a mere few thousandths of an inch.

So . . . at 100 yards I shoot a 10½ pound sporter rifle "free-recoil", with maybe just a little thumb pressure right behind the tang,

to help settle the gun . . . but the thumb pressure is released before pulling the trigger. One of the commonly seen flat rear sandbags, placed beside the rifle to rest your hand on, makes this style of shooting a lot more comfortable, rather than trying to hold your trembling hand up in the air. Plus one does not wish the shooter on the next bench to realize how nervous you are. This makes you look a lot more calm and professional . . . quite important if you're trying to "psyche out" Don Geraci on the next bench.

As for my bag set-up, and rest . . . I use a Hart front pedestal, and I like a front bag that fits the stock rather tightly, and offers a bit of guidance in returning my gun back to its point of aim rather quickly. If conditions are good out in front of me I don't want to waste a lot of precious time looking for my target. My front bag is a narrow owl ear bag that most shooters use for their 2¼ inch hunter guns. It is filled to about 90% of capacity with a mixture of 50 percent bird gravel and 50 per cent silica sand. This leaves enough give in the bag to accept a three inch wide benchrest stock. This is also the same set-up as Jef Fowler uses. My rear sand bag is one of the rabbit ear bags, filled to the point that it is tight, but not so full as to rock around on the bench.

Eight years ago, while working as an engraver, I spilled a can of ferric chloride, which splashed in my eyes, and caused about 50 percent blindness in my shooting eye. I had resigned myself to the fact that I was going to have to give up benchrest shooting, because everytime I looked through a scope after this incident, all I could see was something that looked like

a partial eclipse of the moon. But a gentleman and friend named Ed Spiegelhaer, a Texas benchrest shooter, spent a lot of time giving me pep talks, and finally convinced me that I should give up the game only after making a long concentrated attempt to shoot halfway decently again.

Every day I would set up my gun and my sandbags on the kitchen table, and practice positioning my head, and dry firing the gun for about a half an hour on a target that I had hung up outside. After a period of time, as my eyesight was improving, I could no longer fail to notice that everytime that I pulled the trigger, the gun would move slightly, and also the crosshairs moved about an eighth of an inch. Holding the gun firmly did not help, indeed it made things worse. I rationalized that the problem was in the wobbly kitchen table, and decided to prove this obvious cause by going to the range, with its concrete benches, and trying the same dry-firing. Confound it, the same gun and scope movement occurred.

On four consecutive days I went out to the range, and never fired a single round; I just kept messing with the gun, trying lightened firing pins, stiffer springs . . . whole bunches of parts and ideas . . . trying to keep that crosshair relatively still when I pulled the trigger. Well, on the last day of my vacation, I went out to give it one last try. When I arrived at the range, I discovered that I had left my sandbags at a friend's house. I called him, and he said he would be glad to bring them down to the range for me. While I was waiting for him, I grabbed a few of the old cloth shot-bags filled with sand that some of the less sophisticated club members use for sighting in their deer rifles. I dry fired a few rounds, and was startled beyond belief to find that with this jury-rig set up, the crosshairs were not moving. When my friend arrived with my rest, I inspected the sandbag on my rest, and found that I had filled them so tightly with sand that the gun would actually vibrate on the bag. Once I took some of the sand out of the bag, my gun settled down quite nicely. Thus I feel that some of our new shooters may benefit by tuning your bags to your gun. I also think, on the other hand, that bags should not be under-filled as they are apt to shift around under the forces of recoil.

Back to the issue at hand. Once again, I shoot 200 yards entirely differently than I shoot 100 yards . . . unless conditions are real nice . . . but that's like Ponce deLeon looking for the fountain of youth. Not in Texas, friend! My 200 yard style is more aggressive; I begin to hold my gun more, in order to be able to return it to point of aim quicker (to observe the condition that I have just fired in). This is the basic way that I approach a 200 yard record target: after

Flannel Cleaning Patches

1¼" Squares	\$ 6.20 per 1000
1¼" Squares	\$ 4.60 per 500
2" Squares	\$5.00 per 500
2" Rounds	\$ 5.30 per 500

Remay Cleaning Patches

1¼" squares	\$5.20 per 1000
1¼" squares	\$3.90 per 500
2" rounds	\$4.60 per 500

Hart Brass-core Brushes (1 doz.)

22 Caliber	\$ 8.50
6 mm. Caliber	\$ 8.50
7 mm. Caliber	\$ 8.50
30 Caliber	\$ 8.50

Marksmans Choice 4 oz. bottle

	\$ 4.65
--	---------

J.&B. Bore Cleaning Compound 2 oz. jar

	\$ 3.65
--	---------

Sweets 7.62 Solvent

	\$ 4.75
--	---------

Barts Slippery Stuff,

Super bolt lube in plastic syringe	\$ 3.50
------------------------------------	---------

Match Primers (per 1000)

Federal 205m . . . 210m	\$ 14.25
-------------------------	----------

Remington 7½ . . . 9½	\$ 10.95
-----------------------	----------

Powder (8 pound caddy only)

Hodgdon H4198 - H322 - H4895 - H4831	\$ 79.60
--------------------------------------	----------

T-322, T-4895	\$ 75.66
---------------	----------

Barrels

Hart Stainless Steel Match	\$179.00
----------------------------	----------

Atkinson Stainless Steel Match	\$162.00
--------------------------------	----------

Bedding Material

H-S Precision Bisonite Kit	Steel \$ 8.50
----------------------------	---------------

	Aluminum \$ 7.90
--	------------------

H-S Precision Acu-Bed kit	\$ 4.80
---------------------------	---------

Vise-jaw pads	\$ 13.95
---------------	----------

Leupold Scopes

6X Compact with AO Hunter Class Special	\$124.95
---	----------

6X with AO, with target adjustments;	
--------------------------------------	--

Dot and/or fine crosshairs	\$190.00
----------------------------	----------

Bullets (box of 100)

Berger Bullets, flat base 52 gr. 22 cal.	\$ 9.00
--	---------

Rubright bullets on Simonson die - Flat Base or	
---	--

Boat Tail - 62½gr., 65gr., 68gr.	\$ 9.50
----------------------------------	---------

Federal Match Brass

.22 Caliber	\$ 4.00
-------------	---------

.308 Caliber	\$ 5.70
--------------	---------

McMillan Stocks

Fiberglass	\$100.00
------------	----------

Graphite	\$135.00
----------	----------

Tuller Sand Bags

sets \$16.50, singles \$ 10.50	
--------------------------------	--

Kleiman No Torque Action Wrench/barrel

vise	\$ 75.00
------	----------

Keystone Supply is the East Coast distributor for H-S Precision products. If you are interested in an item not listed above please call or write. Include payment with your order and add \$3.00 for shipping in the continental U.S. Any excess postage will be refunded. Residents of Pa. please add 6% sales tax. An F.F.L. is required for out of state shipment of bullets, powder, primers and cases. Prices subject to change without notice.



Roger A. Gower

R.D. #1 Box 363 / Effort, Pa. 18330
Phone 215-681-4306 after 6 p.m.

establishing what condition I wish to shoot in, I will fire my first record shot. I then try to shoot my second shot as soon as possible. If the second shot goes in with the first, I will fire my third shot, holding in the same place as for the first two.

On the other hand, if my third shot goes out say a quarter inch to the left, my fourth shot will be held a quarter inch to the right of my previous holding spot. That way if the wind picks up any more, it would go in with the third shot . . . but if it lets up, the shot will go with the first two . . . and so on for the fifth shot. It's like playing the odds. The just described group was the way I machine gun a group. It should not have taken more than 15 to 20 seconds to fire a five shot group. Quite often the gun is fired while it is still moving, which is a radical change from the more methodical free recoil style.

I believe that most major matches are won, or lost, at 200 yards, and a shooter needs to have a gun that is capable of grouping at 200 yards, and enough confidence in himself to make quick, decisive decisions as to his next move, because in the instant that it takes him to decide whether to shoot or not, he could have just lost the match. Shoot the condition that you have . . . it could get better, but it's more likely to get worse.

I prefer to hold the 6 o'clock position, with my group forming just below my point of aim. That way I can study my group, as I bring my crosshairs to the point of aim. I do not like to have my group form above my point of aim; when that occurs my crosshairs pass through my group, taking up time to find my point of aim . . . not so much at 100 yards perhaps, but certainly so at 200 yards.

I usually try to keep my crosshairs on

point of aim during the early hours of a match, just watching the flags and shooting when they are the same. As soon as mirage begins to show itself to the point that it is readable, I will begin to "hold off". More of the small groups of my shooting career have been shot closer to the noon hour than have been shot in the early morning calm periods. I just plain have more faith in mirage than wind flags, and with the high power scopes that we are using these days, flags in your scope at 100 yards are just about useless.

I have been in this game for nine years now, and have shot actively for six out of those nine years. When I go to a match here in Texas, most shooters usually greet me with "What you got for sale, Speedy?". Not too long ago I added up the guns and barrels that Harold Broughton has chambered for me, and it came out to a total of 27 different guns, and 73 barrels. And that doesn't count some done for me by Howard Dietz, or Dale Wise . . . and some guns that I just purchased outright, in search of that one, elusive "killer rifle" . . . plus just liking to see the workmanship of different benchrest greats. I guess what I'm trying to say is . . . buy the best that you can afford. If you are sitting at your bench, waiting for the match to start, and you feel that your equipment is not as good as the shooter next to you has, that is not doing your confidence one bit of good. If your equipment has got problems, or you have not yet determined the best load for your new barrel, this also keeps you from 100 per cent concentration on the range conditions.

I believe Allie Euber when he says that good equipment can make a mediocre shooter really shine. Maybe even help us left-handers.

Continued on page 16



- INTEGRAL SCOPE MOUNTING SYSTEM FOR BENCH REST RIFLES.
- R&M FIBERGLASS STOCKS WITH GREATLY IMPROVED DESIGN AND SURFACE FINISH.
- COMPLETE MANUFACTURING & ENGINEERING FACILITIES FOR THE COMPETITIVE SHOOTER.

R & M PRECISION

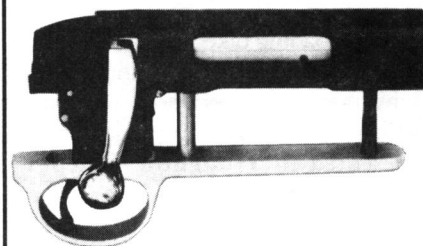
197 SHREWSBURY ST.
HOLDEN, MA. 01520

BOB ADAMOWICZ
TEL. 617-829-9568



SHILEN

First Choice of Competitive Shooters



DGA Single Shot Actions

for HV Benchrest, Silhouette and super accurate varmint/small game rifles 3 lb.

DGA/BP Single Shot Actions

for LV and SP benchrest rifles, and Silhouette pistols 2 lb. 4 oz.

DGA/BP-S Single Shot Actions

as above, but even shorter and lighter 1 lb. 15 oz.

TRIGGER

The fully adjustable Shilen Competition Trigger is specified by shooters who insist upon trouble-free and consistent performance. Equally important, the Shilen Competition Trigger is recommended by the craftsmen who build winners. It is competitively priced — and readily available from factory inventory!

BARRELS

Shilen Select Match Grade barrels enjoy a world-wide reputation for quality. As a result they are the first choice of some of the most successful competitive shooters in the world.

Caliber	Available Twists
.22	14 1nd 15"
6mm	12, 13" and 14
.30	12 and 14

IMPORTANT: NO SELECT MATCH GRADE BARREL LEAVES OUR FACTORY UNTIL IT HAS ED SHILEN'S PERSONAL OK.

Information on Shilen Rifles products for competitive shooters is available, no charge: Specify "Competition Data Sheet" when you call or write.

All Shilen products and services are described and explained in our 16 page catalog, available for \$2.00.

SHILEN RIFLES, INC.

205 Metro Park Blvd. • Ennis, Texas 75119
(214) 875-5318 * new offerings



LIVING PROOF

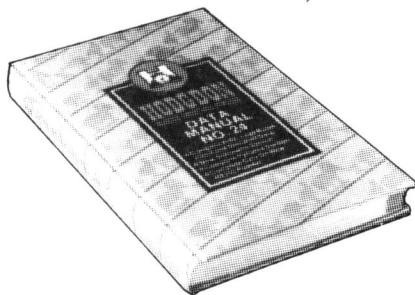
You know that quality and value are the result of wisdom and experience. Now the accumulated wisdom of three generations of family tradition is passed along to you in articles, photographs and stories that every hand-loader—from beginner to seasoned veteran—will find valuable.

Handloading takes special care and respect for what you're doing. That's why everything you need to know about loading ammunition is presented in *Hodgdon Powder Data Manual No. 24*. The format makes for easy reading and the information is technically perfect.

The living proof of the Hodgdon Company's commitment to quality is our customers themselves. Pick up a copy of Hodgdon's Data Manual No. 24 and prove it for yourself.

Available from your favorite firearms dealer.

Bruce Hodgdon



Send me _____ copies of **Hodgdon's Powder Data Manual No. 24** @ 12.50 each.

Name _____

Address _____

City _____ State _____ Zip _____

HODGDON POWDER CO.

6231 Robinson, Shawnee Mission, Kansas 66202

BASIC SHOOTING STYLES

Continued from page 15

SEELY MASKER

Dear Dave,

Since I don't feel in the mood for writing, I'm putting this on a tape, and sending the tape off to you via U.P.S. I'll bet that you didn't know that I had a tape recorder, did you? (Editor: to tell the \$!#@! truth, no, I didn't).

In a way, it doesn't seem fair . . . that the editor goes asking our advice on shooting matters, then takes the advice, and beats us with it. A case in point would be one time when I told you what to watch, relative to the mirage at Pine Tree, and you beat my ears off that afternoon with your new-found knowledge. (Editor: I seem to dimly recall that, but it certainly was not a recent event).

You start off by asking me to describe my basic shooting style. I would have to say free recoil, but in no way can the answer be that simply explained. I may vary my hold for prevailing conditions, or construction of the bench. If there is a bit of wild and switching conditions running out there between me and the targets, I may well elect to grab ahold of my rear sandbag, and use that to change point of aim quickly, if I elect to hold off. If conditions are halfway decent, I will use the free recoil system for shooting cruiser, heavy varmint, or light varmint classes. You did not mention the hunter class, but I will put my two cents worth in, and comment that I shoot my .308 hunter class rifle with a firm hold; I do not like the idea of free recoil with that gun at all.

When I use this system, I control elevation with the rear rest screw, with little change from one class to another. I also use a front rest forend stop with all my classes. My front sandbag is a Tuller, with adjustable sides, to bring moderate pressure to the sides of the rifles forend. It is decidedly easier to control a 20 pound rifle than a 13½ pound rifle; the same is also true when talking about a 13½ pounder versus a 10½ pounder. Another thing that may

cause me to vary my hold is bench construction. At ranges such as Pine Tree, or Dunham's Bay, where we are dealing with all wood bench construction, the slightest pressure from the shooter's body, or a variation in pressure, can do grievous harm to the record target. Woodtops on concrete block legs are certainly an improvement over an all wood bench, but still not totally unforgiving of a shot from your next bench neighbor going off a split-second ahead of your own shot. This has happened to me more times than I care to think about, and the only way to live with the bitter memories is to adopt the philosophy that your neighbor was smarter than you were. I hope that Faye Boyer and John Hollister will read this, and realize that all is forgiven . . . no matter what I said at the time. This has never happened to me at Kelbly's range, which of course is made up of concrete tops and concrete legs. With several possible variations in bench construction, it seems logical to me to vary the hold to conform with the dictates of that particular bench. Any body pressure on a weak or rickety bench can be a total disaster; I've seen some that would show me my heart-beats quite dramatically through the scope.

I prefer to shoot in whatever condition (that day) I consider to be the most dependable and steady, and wait for it. If you are at the match "for serious", you should be spending some time between relays, and while at your bench waiting for the "commence fire" directive, observing conditions. I prefer to shoot in the same condition, holding dead on for all record shots, but this is not always possible. Sometimes your chosen condition has completely left the area, and you are running out of time, so there is nothing to do but hold off. If you are lucky, you will have time to go down and check on the sighter target. If you are doubly lucky, your shot upstairs will go where your experimenting downstairs indicated that it would go. It doesn't always work out that way, but it's a great feeling when you carry it off. Sometimes there just isn't time to go back to the sighter, so there is nothing that can be done except hold off, using an educated guess, and hope for the best. This little trick can occasionally be done, and yet you get out of there with a whole hide, but believe me, it's not the best way to get to the winners circle.

I broke the IBS 200 yard single group record for heavy bench class one day and in so doing, I can recall running out of time. I went to the sighter, and that shot indicated a half-inch hold off. With about five seconds to go, I held off a half inch, and let'er go. The shot went through the center of the group; that's luck.

Occasionally I will start right on my record

AIR GAGE BARRELS

FOR CLOSEST TOLERANCE — In "Chrome-Moly" and Stainless Steel. All calibers up to 458 Winchester. Blanks or Finished Turned in standard or target tolerance chambers.

Ask for free data on all our services.
DISCOUNTS TO GUNSMITHS.

Write to

DOUGLAS BARRELS, INC.
5504 Big Tyler Road
Charleston, West Virginia 25312

target, with no sighters. To justify this approach, you must have absolute confidence in your rifle, and really there's little sense in doing it unless you have a dead calm that looks as if it will be here for the 15 to 30 seconds it will take you to ram five shots downrange.

DON GERACI

Dear Dave,

After all the bullying and intimidation because I was slow with my last reply, I've decided to dazzle you and be the first one back with my reply. Whaddya think about that turn-around time, huh? First reply, right? (Editor: well, Don, Speedy Gonzalez beat you, Rick Hornbeck beat you, and Seely sent me a tape recording, with music background all before you).

Question #1: I believe that I would classify my basic method of shooting as free recoil. I've never been able to shoot with pressure, and be consistent. I find that I can shoot fast, and fairly accurately with just a slight thumb (pressure) on the stock.

Question #2: I shoot all my guns the same. I personally do not feel that a heavy varmint rifle has anything to offer, over a light varmint rifle. It is my personal opinion that I can shoot a 10½ pound rifle better than I can shoot a 13½ pound rifle. (Editor: that's a surprising statement, but Don does believe this. From conversations with him in times past, he feels that the lighter rifle is faster in handling, allowing him to move it, or get back on target a lot faster and this is the critical factor to him).

Question #3: My front rest is a Hart, with owl ear sand bag. I don't have much pressure on the forend of my rifle. I do use the rear lug screw of my front stand for elevation adjustments. I do NOT squeeze my rear sand bag. I shot for years with my front bag very loose, and shot well.

Question #4: I try to shoot on the same condition. I think that when you hold off, you are mostly guessing. I will hold off if conditions are real bad. It seems to me that most of the time that I hold off my aiming point, I miss the group more than I hit it. I like to find the prevailing condition, and work with it. I feel that in the long run, I do better this way. I think that a lot of shooters try to see too much out there. I've watched a lot of shooters waste good, shootable conditions, waiting and hoping for it to get better. I myself try for the good group not the killer group. If I keep on getting those "low two" groups, I should get 'em in the agg. So many shooters try too hard for those zero groups there just are not that many of them to be had!

Continued on page 18

Benchrest Supplies

ACCESSORIES

Bushnell Lt. Wt. 1" Scope Rings, pair	\$ 13.50
Bushnell Prof. Bore Sighter	\$39.97 Arbor \$ 7.97
Bushnell Sentry Spotting Scope, 20X or 32X	\$123.30
Bushnell Shooting Glasses, yellow	\$ 27.50
Davidson Action Wrench	\$ 26.58
Davidson V-Type Barrel Vise	\$ 31.88
Decker Rifle Vise, Benchrest Model	\$ 38.13
Gonzalez NBRSA Belt Buckle	\$ 10.50
Bill Hall Bolt Holster	\$7.50 Fancy \$ 9.95
Hart Front Rests	\$ 79.95
Hart Rest, Competition Top Kit	\$ 29.95
MTM Caseguard 50 Cartridge Boxes	\$ 2.58
MTM A 760 Shooters Accessory Box	\$ 21.63
Silencio 71 Ear Muffs, liquid filled	\$ 12.75
Sinclair Competition Top for Wichita	\$ 43.50
Speedy Sand Bags	Front \$8.06 Rear \$ 13.05
Wichita Rests	Cast Iron \$ 79.95

ACTIONS & TRIGGERS

Hall Stainless Steel Std. Action	\$560.00
Hall Stainless Steel Big Action	\$860.00
Hart 2 oz. Trigger	\$ 87.85
Shilen 2 oz. Trigger	\$ 79.50

BARRELS

Hart S.S. Match Barrel	\$192.00
McMillan S.S. Match Barrel	\$197.95
Shilen S.S. Select Match Barrel, 6 Groove	\$199.50

BRASS

Sako 220 Russian (PPC) Cases	ea. \$.50
Federal .222 Nickel Match Cases, Box of 20	\$ 4.64
Federal .308, Nickel Match Cases, Box of 20	\$ 6.36

BULLETS

Earp 22 cal. 52g Match, Box of 100	\$ 10.00
Earp 6mm 65g Match, Box of 100	\$ 11.00
Metzger 22 cal. 52g Match, Box of 100	\$ 10.00
Metzger 6mm 62, 68 or 70g Match, Box of 100	\$ 11.00
Watson 22 cal. 52g Match, Box of 100	\$ 10.83
Watson 6mm 62½, 65, 68 or 70g. Match, Box of 100	\$ 11.88
Sierra 22 cal. 52g HPBT, Box of 100	\$ 7.89
Sierra 30 cal. 168g International, Box of 100	\$ 12.41

BULLET MAKING

J-4 .22 cal x 705 Match Jackets	\$ 29.50
J-4 6mm x 750 or 825 Match Jackets	\$ 32.50
Sierra 22 x 705 Match Jackets	\$ 28.30
Sierra 6mm x 740 or 810 Match Jackets	\$ 30.17
Sierra 30 x 1 150 Match Jackets	\$ 65.69
Avril Lead Wire 3/16" or 15/64" 25 lb.	\$ 29.95
MTM Plastic Bullet Boxes, 22 or 6mm	\$.45

CLEANING EQUIPMENT

Bruno Special Brass Core Bronze Brushes, 22, 6mm, 7mm or 30 cal.	dozen, \$ 8.50
Dorsey Delrin Rod Guide	\$ 9.95
Hart Patches:	
1000 - 22s	\$ 6.58
500 - 6MM	\$ 5.07
Hoppe's No. 9 Solvent - pint \$4.47, quart \$7.45, gallon	\$ 28.85
Jackson Cleaning Rod Caddy	\$ 20.00
Marksmans Choice No. 7, 4 oz bottle	\$ 4.75
MTM Bore Guide	\$ 3.63
Parker-Hale 22/6mm 37" Rod	\$ 13.80
Parker-Hale 22/6mm 44" Rod	\$ 14.87
Parker-Hale 30 cal. 37" Rod	\$ 13.80
Parker-Hale Brush Adapter	\$ 2.15
Parker-Hale Extra Jag	\$ 1.75
Rig. + P Bolt Lug Grass	\$ 3.00
Sinclair Action Cleaning Tool	\$ 8.95
Sweets 7.62 Solvent, 8 oz.	\$ 5.25

GUN CASES & SAFES

Alco Alum. Sgl. Rifle Case 48x9x4	\$ 98.25
Gun Guard 101 Hard Case, 48 x 9 x 4	\$ 35.04
Gun Guard 202 Hard Case, 52 x 11½ x 4	\$ 39.71
Gun Guard 252 Hard Case, 52 x 13½ x 4	\$ 42.93
Pro-Steel Security Vaults	from \$456.00

LOADING TOOLS

Culver/Lyman Powder Measure	\$134.70
Huntington Compact Loading Press	\$ 54.95
Jones Micro Powder Measure	\$160.00
Jones Sizing Die - less bushing \$21.00	Bushing \$ 5.00
Jones Decapping Tool - less mandrel \$19.00	Mandrel \$ 6.00
Lee Auto-Prime with 2 trays	\$ 10.48
Lee Challenger (O) Frame Bench Press	\$ 29.99
Lee Shell Holders for Auto-Prime	\$ 1.74
Lyman #55 Powder Measure	\$ 43.48
Lyman Universal Case Trimmer	\$37.13 Pilot \$ 1.88
Lyman D-7 Scale	\$ 35.96
Mitutoyo 0-1" outside micrometer, tenths	\$ 48.50
Mitutoyo 0-1" ball micrometer, tenths	\$ 55.25
Mitutoyo 4" dial caliper, thousandths	\$ 47.00
Redding Benchrest Powder Measure	\$ 59.68
Redding Full Length Sizing Die (press type)	\$ 21.00
Sinclair Arbor Press	\$ 67.75
Sinclair Flash Hole Deburrer - large or small hole	\$ 11.85
Sinclair Primer Pocket Cleaner	\$ 5.00
Sinclair Primer Pocket Uniformer	\$ 16.80
Sinclair Neck Turner, less Mandrel	\$ 29.95
Sinclair Mandrel (specify caliber)	\$ 7.90
Sinclair Deluxe Universal Case Holder	\$ 17.50
Sinclair Drop Tube 4", 6" or 8"	\$ 6.30
Sinclair Case Length Trimmer, 22PPC or 6PPC	\$ 14.20
Wilson Case Trimmer - less case holder	\$ 18.08
Case Holder	\$ 2.81
Wilson Full Length Resizing Die	\$ 11.80
Wilson Bullet Seater	\$ 24.00
Wilson Neck Sizing Die - less bushing	\$ 24.00
Bushing	\$ 6.00

POWDER

Du Pont 4198, 4895, 3031, 4064, 4350 - 1 lb.	\$ 12.93
4198, 4895 - 8 lb.	\$ 99.87
Hercules Reloader 7	1 lb. \$ 11.14
Hodgdon H-4198, H-322, H-4895, H-4831	1 lb. \$ 11.56
	5 lb. \$ 54.43
Hodgdon H-335, BLC(2), H-380	1 lb. \$ 11.40
	5 lb. \$ 54.40, 8 lb. \$ 84.94
Winchester 748	1 lb. \$ 11.14
	8 lb. \$ 84.74

PRIMERS

Federal 205M or 210M Match Primers - 1M	\$ 14.80
Federal Standard Rifle or Pistol Primers - 1M	\$ 10.99

SCOPES

Leupold 36X	Crosshair \$261.91 Dot \$275.71
Lyman 6XSL	\$177.29
Lyman 35XLWBR	\$283.49

STOCKS & BEDDING

H-S Precision Acu-Bed Kit	\$ 4.95
McMillan Fiberglass Stocks	\$101.50
McMillan Graphite Stocks	\$137.50
Six Unlimited Stock, Hall Pattern	\$115.00

Above items are regularly in stock for immediate delivery. Please send payment with order, and include enough for shipping charges - we refund overage. Minimum order \$10.00. FFL required for bullets, primers, cases or powder shipped out-of-state. Prices subject to change without notice. Write for our complete price list.

Dealers - send signed copy of your FFL and sales tax certificate (in Texas) for our confidential dealer price list.

FOWLER SHOOTERS' SUPPLY

P.O. Box 6421 - Midland, Texas 79701
Phone - 915-563-4341 (In Texas)
Toll Free - 800-351-1466 (other 47 States)

BASIC SHOOTING STYLES

Continued from page 17

ALLIE EUBER

Dear Dave,

Sorry I'm a bit late with this reply to your inquiry. The deer hunting season just ended in Vermont. Sure hope that my deer hunting success is not indicative of what my benchrest success will be in 1985. I may have to borrow your .30 Aardvark when it arrives from Broughton . . . that way I can at least have the excuse that it will be an "experimenting" year. Kidding aside, the recent burst of Wildcat articles is fascinating . . . and the heavy .22 caliber bullets in the 65-68 grain area is really something to speculate about. It's basic human nature to be interested in "something different", and these Wildcat articles are the basis for a lot of shooters . . . well, showing signs of life . . . and thinking again. It's all for the good.

My basic style of benchrest shooting varies. The rifle that I am competing with, and conditions each enter into how I will handle my equipment. I try to be flexible and use what feels most comfortable, and gives me the most confidence, with acceptable results. Most of the time I will use the free recoil style that is used by the majority of shooters today. An exception may well be when heavy mirage conditions are present . . . then I will probably feel more comfortable holding the rifle, and getting a good field of view from my scope . . . thus letting me read the mirage waves more clearly.

When I am shooting the unrestricted

class in switching conditions, I use a firm hold, with my cheek applying even uniform pressure to the stock. My heavy bench gun is a bag gun, and it slides hard on the rear bag and front rest. I find that I can shoot faster by man-handling the heavy gun on the bags. In shooting a ten shot group, I feel that it pays to get as many shots off in the same condition as possible. In good conditions however I will free recoil the big gun, and try for those screamer groups that keep you competitive and in the hunt.

I personally feel that the big guns are more forgiving when a shooter error or holding error takes place. But, at 100 yards, I have jerked shots out of the group by .400, which only goes to prove that a shooter can take a forgiving situation, and blow it all to blazes, if he is not careful, and paying attention to each shot. On the other hand, in 1984 a highlight of the year, to me at least, was the shooting of Ed Goff and Bob Adamowicz, firing sporters in the unrestricted class . . . and doing remarkably well at it.

My front rest is an adjustable type, with some pressure on the sides of the stock. Before I went to an adjustable front rest last year, I used a well formed front rest bag that was snug against the stock. This helped to secure the rifle stock in the bag. Some shooters may be of the opinion that a snug fitting bag will help guide the rifle during recoil, and improve the accuracy. It is my opinion that the greater advantage of using an adjustable bag comes when reloading

for another shot, and getting the scope back on target quickly. I don't have as much confidence shooting free recoil when the rifle nearly tips over in the rests when I am opening the bolt. I also like a stiff rear rabbit ear bag which I get my elevation adjustment from, by squeezing with the left hand that I keep placed on that rear bag. I like to see the scope dot stay in the ten ring when a shooter fires on the next bench. This indicates to me that the bags are adjusted properly, filled with proper amounts of sand, and I am not using too much squeeze for elevation on the rear bag.

As far as the practice of "holding off" goes . . . given my druthers, I'd rather not hold off at all. But, holding off, or not holding off is (very often) not your decision . . . it is dictated by prevailing range conditions. At 100 yards I try not to hold outside the 10 ring. I use a dot in my scopes, and my aiming point is the center of the ten ring . . . at least for the first shot. If conditions are decent, but switching (at low velocity) I will use sighter shots, and maybe do a little "shading", but I try to "dope shots in" when my selected condition returns. In a pinch I will hold off to finish a group if time is getting short.

At 200 yards I shoot a little differently. The basic reason is that it is harder to detect a one quarter inch of change at the greater distance, with more variables involved. It is also harder to get the entire field (between you and the targets) doing the same thing . . . it is likewise harder to ascertain where the first true indicators of change are on that field. I call my style of shooting at 200 yards "progressive anticipative change shooting". (Editor: after a phrase like that, the bartender usually sends ME home). If the name has you confused explaining it may confuse you even more. But I'll try anyway. It is basically something like Russian Roulette . . . sometimes with the same results.

Basically what I look for is the whole field to have a similar condition, with just about all the flags generally blowing in any direction (but the same direction), and with the velocity holding pretty steady. The lighter the push, the better for me. I like it stable, with no flip-flops in direction. So far that sounds pretty logical and reasonable, huh? What I'm trying to do is to identify a condition in which I can probably shoot a half-inch, five shot group at 200 yards, if I hit the conditions with good timing. The major reason for wanting the whole field similar is so that I can give a quick glance while I am reloading for the next shot, and be able to pick up any noticeable change or reverse, and stop shooting.

Now, with the easy explanation done, I'll try to explain what I mean by progressive anticipative condition change shooting.

Precision

CHAMBERING REAMERS

Professional Quality

Nearly 500 standard caliber & popular wildcat reamers in stock

★ *Immediate Shipment* ★

Custom Specials — 30 days (or less) delivery

★★★ *Computerized Prints Furnished* ★★★

Standard & custom headspace gauges

All types of piloted form tools — including 25° counterbore
for new Rem. bolt replacement !!

JGS
DIE & MACHINE
Precision Tool Manufacturing

"The Reamer People"

VISA or
MasterCard
accepted

1141P So. Sumner Rd.

Coos Bay, Oregon 97420

1-503-267-4331

(Editor: Allie, I can see why Harold Broughton has never let you name a wildcat for him . . . the name of the cartridge would take up the better part of the barrel). Now that I have selected a condition that I feel will allow me to shoot a half inch group at 200 yards . . . now I'm going to go for a group that is just half that . . . or, a quarter inch. Believe me, quarter inch groups at 200 yards do not come easy . . . and it takes good timing, educated guessing, and a lot of luck, with a rifle that is a tack driver.

Anticipative shooting is identifying which side of a condition you have fired your first record shot in, and guessing whether it's a hard-to-identify quarter inch let-up or quarter inch pick-up, and where the next shot will move to.

For a clearer example, let me talk you through the firing of a group. Maybe if Don Geraci reads this, I can confuse him enough to slow him down in 1985 . . . so that someone else can get their picture on the November cover of P.S. Knowing Don, I suspect that he's already got a photo picked out. Joking aside, Don Geraci's shooting, over the last two years, has been the measure by which all other shooters are judged . . . and that's a heck of a compliment.

Let's say that with a center of ten-ring hold, my sighter cluster in a half-inch group, from 3 o'clock on the ten ring to 3 o'clock on the nine ring. There is not much vertical in the group, so it looks as if we have a good condition to work with. The condition is holding steady out there, so I'm ready to jump on it and go. BUT . . . here is where I do things just a little differently . . . although I have made the decision to go, I am going to fire another sighter . . . as a lead shot, to gauge which way the wind may be changing. Let's say that this sighter shot hits the ten ring line at 3 o'clock. I reload quickly, glancing at the field, and fire my first record shot. It hits the nine ring at 3 o'clock. I reload quickly, glancing at the field. I see no noticeable or readable change. My educated guess is that if I lose my second record shot, it will be back towards the ten ring. I fire the second record shot, holding $\frac{1}{8}$ inch to the right. It cuts the first record shot, a little to the left. I'll bolt the third record shot quickly, not even looking at the flags this time, and, holding $\frac{1}{4}$ inch to the right, I'll fire. It goes through the group. Now I'm starting to get nervous, it's a nice group out there. I slam my fourth record shot into my rifle, quickly glancing at the field . . . no noticeable change yet so I fire, hold $\frac{1}{4}$ inch right, same as the third shot. It cuts the group a tad high, but doesn't hurt the measurement. Now my heart starts pumping and thumping . . . well, at least I know that it's still working . . . one to go and it's over. I throw the fifth shot into the

rifle, and I can see that the flags are starting to drop a little, off to my left. I'm going for it; I'm too nervous, too wired to dope one in with a sighter. The little mental computer, programmed with a decade of shooting, barks a directive to hold $\frac{1}{2}$ inch right, and $\frac{1}{8}$ inch low for the dying let-up. Bang! It's over! Was I right? Did I hold enough? I don't dare look. Nobody is saying "good group", maybe nobody was watching. I can't stand it any longer, it's time to bite the bullet . . . and look. (Sob), the last shot went left, nearly a bullet hole, I'm upset . . . but elated at the same time. It's still a .400 group, but not the slack grabber that I was looking for. I've kept my confidence though, and I've learned something as well. My guess was right, just not enough. Next group I'll have the courage to give it a little more hold off when the condition drops off.

The group that I've just talked you through is an example of my style of shooting. I take chances, and I guess shots into (as well as out of) my group. I enjoy the challenge . . . as I am shooting a group my heart starts pumping away, and the old adrenaline hits the nervous system. I guess that you could say that I am a six shot shooter, since I always try to shoot an extra shot on the sighter after I have made up my mind which condition I will shoot in . . . but I don't worry about that theory . . . the sixth shot is on the sighter, and they don't measure down there.

My friend Tony Boyer has watched me fire a few groups, over the years through a spotting scope. Personally it doesn't bother me all that much, when the wind starts to blow . . . I'm a fair 200 yard wind shooter.

Anybody who has ever watched me fire a few groups will know that I will always check out where the bullet impact will change to, for a let-up. I have found that, in windy conditions, the easiest condition to quickly identify is the let up. I like to know where the point of impact is in the let up.

Sorry I got carried away, as I look this over, it look's kind of long. (Editor: you're forgiven).

JEF FOWLER

Question #1: Free recoil. I try to exert no pressure on the gun, touching only the trigger. My trigger hand rests on a flat sand bag, so I don't have to hook my thumb over the grip. Only my shirt or jacket touches the butt, which allows the gun to recoil about $\frac{1}{4}$ " before encountering resistance. I do not use cheek pressure for windage, aiming only by squeezing the rear bag.

Question #2: I shoot the 10 $\frac{1}{2}$ & 13 $\frac{1}{2}$ lb. guns in the same manner. In unrestricted, I shoot a rail gun now, but when I was using a bag gun, I shot it the same as they others.

Question #3: My front bag is a standard Tuller-type "Owl Ear", molded as tightly as I can get it to the forearm. The sides do touch.

Question #4: The vast majority of the time, I try to shoot all 5 shots in the same condition, using the same aiming point and firing very quickly. When conditions or time won't permit this, I do hold, but seldom without checking on the sighter first.

MORE REPLIES NEXT MONTH

NEIL A. JONES — CUSTOM PRODUCTS FOR THE SERIOUS SHOOTER

FLOATING NECK SIZING DIE

Proven in over 10 years of use. Used and recommended by top benchrest competitors. Accurate, versatile and economical. No waiting to fill your needs. Most standard sizes in stock. The bushings are interchangeable and we keep 75 sizes in stock to fit most calibers. Any size bushing or die can be made on request.

Other Custom Products

Standard 7/8- 14 Threaded Floating Neck Sizing Die
Micro - Measure Powder Measure
Decapping Tool
Priming Tool
48" one piece Cleaning Rod Sets (22 thru 30 cal.)
Action Cleaning Tool
22 Rimfire Ammo Accuracy Gauge
Target Measuring Accessory
Remington 600 series Steel Floorplate & Triggerguard

MORE PRODUCTS TO COME IN THE FUTURE.

Send \$1.00 for illustrated catalog of products

For your convenience our products can also be purchased from two of the major benchrest suppliers who also advertise in this publication.

CUSTOM PRODUCTS Neil A. Jones

RD #1 Box 483A

Ph. 814 - 763-2769

SAEGERTOWN, PA 16433

UNITED STATES BENCHREST HALL OF FAME

Dear Dave,

The final discrepancy in existing Hall of Fame records has been resolved, and Homer Culver **does** have six points, rather than the five previously recorded. The following letter from Al Walters was sent to us by Homer:

Nov. 30, 1984

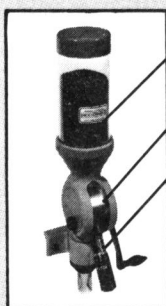
"Dear Homer,

As per your request this is to confirm that at Johnstown at the 200 yd (Unlimited) shoot in 1961, I was mistakenly given the 200 yard aggr. But in refiguring later they found that you won it. I sent you the patch and cup as soon as I found this out. Hope this will straighten out things so you can get your points due you for the Hall of Fame. Am sorry Johnstown didn't change it but hope this letter will serve the purpose for you. If I can help you in any way please let me know.

Al Walters"

If you could make note of this at some point, I'm sure Homer would appreciate the consideration — as would I.

Cordially,
Skip Gordon



Powder Baffle delivers charge-to-charge uniformity
Precision machined powder flow areas
Zero backlash micrometer guarantees precise, repeatable settings
Comparable features can only be found on expensive custom conversions.

See the #3BR Match Grade Powder Measure at better gun shops or write for FREE full-line catalog!

REDDING
RELOADING EQUIPMENT
114PM Starr Rd., Cortland, N.Y. 13045

TRANSCONTINENTAL HUNTER RIFLE LEAGUE AMERICAN CONFERENCE TCL Championship Match Results 1984 Season

1984 AMERICAN CONFERENCE CHAMPIONS..... PRAIRIE DOG

Bill Ruth	30XP	249- 9
John Ambler	30SP	248-10
Curtis Deckert	30SP	248-12
Daniel Nyffler	308	248- 9
Don Deckert	30SP	245-10
		1238-50

SECOND PLACE BATON ROUGE

Russell Waterman	308	240-11
Jud White	?	248-10
Jimmie Broussard	308	244- 6
Alex Pettigrew	7/08	243- 7
Frances Broussard	6HLS	243- 6
		1228-40

THIRD PLACE RED LODGE

Huck Hutson	6MMII	247-12
David Ritter	6/250	245- 6
Ted Dewitt	308	241 5
Shawn Stewart	308	241- 4
Harold Stewart	308	239- 7
		1213-34

FOURTH PLACE MINNETONKA

Don Judd	6BRL	245- 3
Ron Wyman	6/250	243- 7
Mike Prokosch	308	242- 9
Karl Kulp	6NRL	241- 4
Gary Wrona	6BRL	240- 2
		1211-25

The American Conference recently closed out their TCL season, and you will see the final results above. The Prairie Dog gang, with international headquarters in Porcupine, South Dakota were on a roll, and "swept all before them", as the saying goes. Interesting that all five shot .30 caliber rifles.

The Cajuns showed a lot of class (which is not unusual for them). In their match, they had several shooters with higher scores than several of those that made up their team score. Nobody had to tell them what they could, or could not do . . . or what was right, or what was wrong. Among themselves, they reached the decision . . . to use only scores of shooters who had indicated that they wished to compete in the TCL prior to the start of the season. Without the self imposed rule, their team score would have been 1248-53x.

A tip of the Editor's to the Baton Rouge bunch. You kind of make me glad to be a part of the same world as you. One of the nicer gestures that I've encountered in recent days. Say . . . is that Texan, Louis Langlinais still shooting with you guys?

WANTED
40-X ACTIONS, STOCKS,
and RIFLES.

Bob Pease
POB 787, New Braunfels, TX 78131.
AC 512 625-1342 afternoons

Send for our FREE
Catalog of Gunsmith Tools
and Mounts

B-SQUARE COMPANY
BOX 11281 • FT. WORTH, TX. 76109

THE MORE THINGS CHANGE THE MORE THEY STAY THE SAME: EVENTUALLY

by Bob Pease

Some of the fads that have come into the game of benchrest shooting catch on as quickly as the winter flu and some last a good bit longer. Somehow the patient seems to survive and with the natural instinct of a human he eventually returns to his original method of doing things.

Benchresters are notoriously (and thankfully so for me) the greatest gadget innovators and gadget users of any shooting clan on earth. The venerable Sam Wilson once told the competitors at Johnstown, NY that if he came next year with a wheel on his rig the following year everyone would have wheels. What Sam probably thought and didn't say was that the year after that either there would be a rule against wheels or everyone would take them back off anyway having gone on to a newer and different fad.

The very first glue-in I saw was at Council Cup in 1971 when Selby Wright from Indiana brought it and some impressive shooting ability to the East. Mike Walker perked up so much that he glued in some 40-XBR's at the plant and even shipped several out to the more experimentally minded shooters. Thus the glue-in fad was born and it has reigned well for a number of years in spite of such shortcomings as shattering a stock taking a glue-in action out or having to drop out of a match when a trigger change could not be made in time.

Now it appears that the glue-in is beginning to fade in popularity and suddenly many shooters are re-discovering the wonders of pillar bedding. The system developed in the late 60's by Marlin Bassett and Dave Hall, was a raging fad at that time and suddenly seems (like fine wine) to have improved with aging an interesting development to some and a revolting development to others for the one advantage to the glue-in is that virtually anyone can slap a barreled action into a stock as a glue-in and it will shoot, whereas a pillar bedding job must be carefully and correctly done to perform accurately. This latter trick seems to be separating gunsmiths from blacksmiths I'm told.

The taper case neck was followed by the stepped case neck, followed by the semi-tight neck followed by the slip fit neck and here again the fad seems to have run its gamut as more and more shooters are

reverting to the semi-tight neck theory. Not a small contributing factor to this reversal has been the advent of superb neck sizing dies with interchangeable sizer bushings developed by Berger, Jones and Wilson as well as numerous others. The slip fit or zero neck depends too much on the elasticity and hardness of the brass case neck.

A case fired twenty times will act differently than a case fired three times and if neck thickness grows due to either containment or dirt, excessive pressures and resultant flyers follow. More neck sizing dies and turning tools are being purchased today than ever before as the trends toward zero fit neck or slip fit neck seem to be fading in popularity.

Another trend that seems to have gone full circle, perhaps for the second time, is the use of the dot for aiming with a scope reticule. Now the interest is back to fine and super fine crosswires for more precise and careful aiming. Perhaps influencing this latter trend was the recent sale of the T.K. Lee Co. owned by the originator's son-in-law Dan Glen whose age and health made the sale and retirement mandatory. Thus far no word has been heard from the purchasers with regard to any dot installations.

Scope magnification is also a variable, subject to the trend mood. When the Leupold 36 first came out and Wally Siebert bumped them immediately to 45X some shooters went overboard in their theory that if a little magnification was good, more just had to be better. Even as recent as that change occurred there is already demand for the older Leupold/Siebert 30X conversions as well as the Lyman/Sieberts in 32X, both of which are scarce items. Even the most experienced shooters are convinced that with the 36X they have reached the peak of magnification/mirage tradeoff.

During the late sixties the bullet fraternity swung toward the boat-tail bullet in the accuracy game. While I'm not sure who the innovator was, the tremendous success of the Detsch bullets during that era certainly fostered the movement. It was culminated around 1968 or '69 when Ferris Pindell built the 52 gr. boat-tail dies for Sierra and winning the Nationals with boat-tails in both .22 and .30 certainly helped.

More recently all of the top custom bullet

makers have reverted to flat base bullets, many with the slightly larger base pressure ring first espoused by the late Paul Gottschall. Even the more knowledgeable accuracy and varmint shooters that use Sierra have swung from the 52 gr. HPBT Match back toward the 53 gr. HPBT Match bullet. Most of the custom 6mm bullets are also flat base, a style that was revived by Mike Walker when the Remington Custom Shop made their superb Benchrest bullets in both .22 and 6mm diameter.

There are several trends that won't be reversed at least in the foreseeable future. Having the scope mounted all on the action with no pressure on the barrel seems likely to remain for a long time. The careful analysis of the bullet ogive to land relationship as compared to weight or length checking bullets is another change not likely to be reversed.

Far more careful and proper cleaning of barrels as well as improved cleaners are most certainly prolonging barrel life and preserving accuracy beyond limits ever expected before.

It does appear however that in many respects the more things change the more they really stay the same. Let's hope that holds true, at least until this article gets published.

SWITCH BARREL RIFLES

LIGHT VARMINT - HEAVY VARMINT
COMBINATION

HEAVY VARMINT - HEAVY BENCH
(CRUISER) COMBINATION

ALSO HUNTER CLASS
with .308 and 6x44 barrels, or 30x44 and
6x44 barrels

SEELY MASKER

CUSTOM RIFLES

Rebarreling — Rechambering —
Restocking

261 Washington Avenue
Pleasantville, N.Y. 10570
Phone (914) 769-2627

Ted Boughton And The .222 1/2

By
Dave Brennan

Ted Boughton, of Rochester, New York was on our October issue cover, and on our small "cover photo" blurb, I stated simply that he was the original "gunsmith mentor" of the Editor.

That is no small sentence . . . it ranks right up there with the statement that Hillary was the first to conquer Everest. Lesser men, in great numbers, have given up both tasks . . . before and since.

My first exposure to the world of benchrest shooting came while visiting a local gun shop in central Connecticut. I owned a dozen rifles at the time, varmint rifles, target rifles, and single shot rifles. This particular shop maintained a section where they sold used "gun" magazines at a flat price of 25 cents per issue; it didn't matter if it was a mint set of 1925 issues of *The American Rifleman*, or some recent issue . . . 25 cents was the price, period.

I found a dozen back issues of a publication that I had never before encountered, "*Precision Shooting*". I purchased them, and at home, while reading them, I found a new world existed. In those pages I found a small, inch and a half ad, for one T. H. Boughton-Gunsmith. The modest ad related that the operation was full time, specializing in benchrest rifles, built by a competitive shooter, with "match grade chambering" with tools by Keith Francis, of Talent, Oregon. The address was 410 Stone Road, Rochester, New York 14616.

Something about the ad caught my attention and I contacted Ted Boughton to build my first benchrest rifle . . . a heavy varmint rifle, with a Remington 722 action, Hart barrel, Canjar trigger, and laminated stock.

Anyone who had ever known Ted Boughton would have had no need to ask the caliber . . . if Ted had anything to say about its selection, it would have been a 222½ . . . period. Ted thought very highly of that cartridge, and a request that he consider a different selection for your next rifle would bring an unhappy silence to the discussion.

Back in the 1970 era, the editor was a mechanical dim-wit. I might add with some note of pride that the ensuing fifteen years have changed me not a bit. Things have to be patiently explained, and in depth. Today, at matches, since I am usually loading somewhere near Seely Masker, Seely is used to little problems such as the base screws on my Hart front rest becoming jammed with sand, or my PPC cases having expanded too much to go into the seater die. In a way, Seely is lucky . . . Harold Boughton has to write a letter, telling me what's wrong.

Ted Boughton also had to write letters. But, like all my gunsmiths, Ted was a long suffering soul.

I am going to reprint an article that I originally wrote, and which P.S. published in the March, 1971 issue, about the 222½. Today, it is seldom, if ever, seen, and it ranks as one of the interesting wildcats out of our sports history . . . along with the .219 Donaldson Wasp, and the 6X7.

Could it shoot well today? With neck-turned cases, and Berger bullets, I see no reason why not. Probably wouldn't quite match the PPC for sheer accuracy though. The longer the case, the more difficult job the factory has in keeping the walls uniform . . . and the cases are made from the .222

Mag, which always was a problem in this respect. Still, I'd love to try it, if only for the nostalgia trip.

Here's the article, untouched from its original publication. It has the aura of by-gone days and the romance of a past, remembered era. Ted Boughton designed his version of the 222½ to shoot 4895 powder, and the fact that I used 4198 in some of my matches used to give Ted a fit. Today, it might be interesting to try H335 in the cartridge. Here goes . . .

Today's Wildcats

No discussion of today's Wildcats would be complete without recognition being given to a long time bench rester's favorite, the 222-½. One of the most popular versions of this cartridge has been produced for lo these many years by Ted Boughton, master machinist and gentleman, whose base of operations is located at 410 Stone Road, Rochester, N.Y. While slightly different in certain respects from the "standard" 222-½, it is very similar in most respects, and has a small but skilled group of users in the eastern section of the country. In addition to Ted, himself, who has ranked among our top heavy gun bench shooters for many years, the Boughton 222-½ has long been the mainstay heavy varmint cartridge selection of Art Blensinger as well as other skilled eastern shooters. This year's IBS Nationals had Art in 5th place in the H.V. class with a .3034 100 yard aggregate and 7th in grand aggregate which is indicative that there remains considerable life left in this venerable wildcat. Warren Page won the H.V. class this year with a standard 222-½, which lends still further credence to our contention that the reasons that caused the development of this particular cartridge a decade ago remain valid and worthwhile today.

Ted Boughton's letter of 11/18/70 to the author concerning his version of the 222-½ contained much of value, and the kind and extensive assistance of Mr. Boughton is gratefully acknowledged.

"On the 222-½, I didn't invent it and honestly don't have any idea who did. Ed Shilen showed it to me about 1960, and it made quite a favorable impression on me at the time. The standard .222 was originally turned out by the factories with brass thickness of .010"-.011". Since then the

McMillan Rifle Barrels

WORLD'S MOST ACCURATE STAINLESS RIFLE BARRELS

They're still **THE ONE!**

The **INTERNATIONAL** action for benchrest, a superior product at a realistic price, will become available for shipping in March, 1985. The ideal complement to the McMillan barrel.

Available in all popular calibers from .17 to .458, also .22 rimfire.

Gunsmithing Services Available. FOR PRICES AND PARTICULARS, CALL

BILL WISEMAN, U.S. International Gunsmith

PAT McMILLAN, Technical Consultant

P.O. BOX 3427, BRYAN, TX. 77805

TEL.: 409-846-3990

brass has been thickened several times and now runs .012"-.014", and some is over .015". On a case the size of the .222, this decreases the internal case capacity considerably. In the 222-½, I could see an advantage in being able to use powder other than 4198, which I have always found difficult to run through a measure with a degree of accuracy that was acceptable to me.

"There are many different versions of the .222-½. Ed Shilen's first version was .125" longer than the standard .222 length (hence 1.825" overall) as was my first version. I have since settled on an overall case length of 1.820" (1.20" longer than standard .222).

"You ask how I form the .222-½ case (Boughton version). A sufficient number of new .222 magnum cases are secured, and then processed in the following steps:

"1. Run neck expander plug thru neck and into die enough to make sure neck is round.

"2. Chamfer neck inside.

"3. Check all cases for neck runout with dial indicator set-up. Discard any with side to side variation greater than .002".

"4. The remaining cases, are reformed to 222-½ by pushing the shoulder back the proper amount in a full-length .222 sizing die.

"5. Trim cases to 1.820" overall length.

"6. Chamfer cases in and out.

"7. Check flash homes for uniformity and watch for inside burrs at flash holes.

"8. Again check cases for neck runout with dial indicator gauge. Segregate as to the results: Those of .001 or less are designated as 'match' cases, those between .001-.0015" are back-up match cases, the rest are designated 'sighters', and kept segregated.

"Now we have a set of pretty good cases, but there is one more thing that we were unable to check and that is the thickness run out back at the solid head section, and this is important.

"This can be picked up visually after cases have been fired a few times; you can notice a distinct line around the case of junction of solid head and case body. A careful examination of the case will show a bulge on one side of the body. If this is excessive, throw the case out. I have heard this bulge explained by the 'experts' as: (1) oversize chamber, (2) chamber not in line with bore (I don't know how to do this, but suppose it's possible if one were to put his mind to it), (3) crooked action, (4) too much head space, (5) loads too hot, etc., etc., etc. But let's look at this from a practical point of view. These shiny little pieces of brass are made by the gun companies in large quantities, and they do a pretty good job of it, too, all things considered. In forming the cases from the basic metal, the company



Johnstown, 1970 era. From left, Ted Boughton, Eve Gant, John Collins, Harvey Donaldson, and Arlene Boughton.



Ted Boughton holds the family poodle, while John Collins practices his Butch Cassidy look.

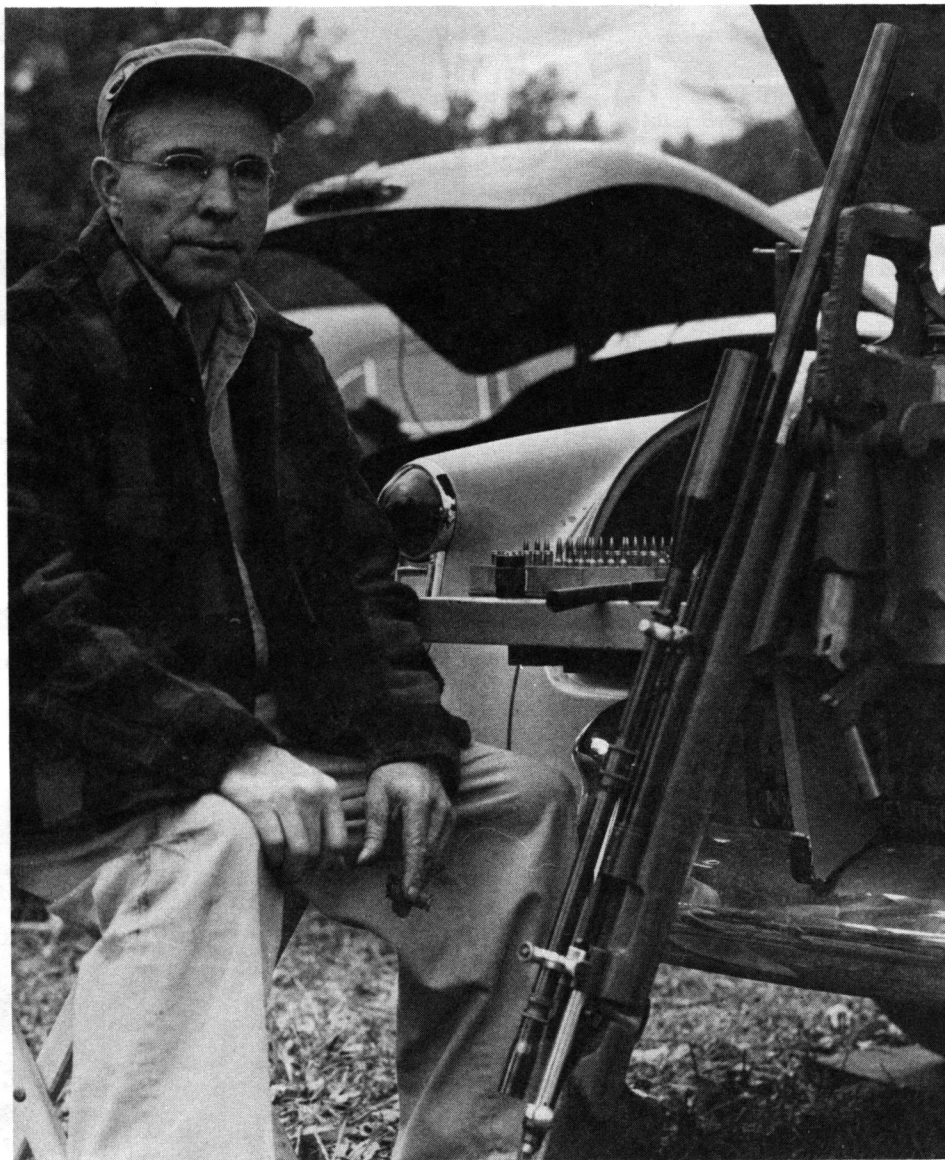
has certain problems and the two most affecting us are tool wear and raw stock variations. Two more problems that can cause a reduction in the quality of any given lot of cases are careless tool set-up and lack of inspection during the various steps of case forming.

"Over the years I have checked many, many cartridge cases by sectioning them and checking thickness at various points and have found the following: A case that runs out at the mouth (say .002" as a 'fer instance) will have that run out increase as it approaches the solid head, and will

several times the neck run out at the base. We all know that expansion takes place in the line of least resistance. In a cartridge case, this is the thin side, which brings us back to that bulge on one side of the case that we discussed earlier. I have sectioned some .222 mag cases in past years that had a run out at the mouth of .004", and found that run out had increased to .035" at the solid head.

"Now when this bulge occurs on one side of the case, it's only visible at that point, but the fault runs the length of the case to a

Continued on page 24



Ted Boughton, at Olean, 1953, with a very typical rifle of its day.

TED BOUGHTON AND THE .222½

Continued from page 23

lessening degree, but still effective in distorting the case. To go further, we can see that the head is offset from the center-line by the amount of the run out. Also the thin side is stretched lengthwise, tilting the head.

"I could go on and on with this, and follow it back through the bolt head and action, then back to the chamber, but what the heck. . . . Someone will tell you about turning the necks, and that again is the line of least resistance, so they will do it. But how does that help? You must have a good case to start with. . . . the entire case. . . . you can't make a bad one good by merely improving one part of it.

"Back to the .222-½ again. With cases selected, fired several times and rechecked, I throat my barrels to seat the bullet approximately .2" in depth; this setup will shoot 26 to 27 grains of my favorite 4895 powder. To get this much powder in the case, I use a long drop tube on the measure, the powder drops 11" from the cylinder. When the bullet is seated, it just touches the powder. This gives about as close to 100% loading density as it is possible to get. This case will also shoot 3031-H380-RE11 and others." (Author's note: those who shoot 4198 in the Boughton 222-½ are using loads between 22.5 and 23 grains.)

Once the cases are formed, the 222-½ is as easy to load as any given standard cartridge. Your author uses a standard .222 RCBS neck-sizing die, and has available a knock-out die from John Dewey for use when the whim seizes him. Straight-line bullet seating is likewise easy, with a Wilson seating die adopted by a special seater base furnished by Ted Boughton.

Harold R. Broughton

Benchrest Gunsmith

**Harold's Custom
Gun Shop, Inc.**

**4 GROOVE
STAINLESS STEEL
MATCH GRADE BARRELS
.22 and 6mm Calibers**

Route #1, Box #447,
Big Spring, Texas 79720
(915) 394-4430

MATCO

**Precision Cut
Rifled Barrels**

14 thru 577 Calibers

R.G. SHERER
TIM BOLINGER
DAVE CHENOWETH

MATCO, INC.

Box #349, 126 E. Main St.
No. Manchester, Indiana 46962
Phone (219) 982-8282

PYRO-DUX

**Get your good-shooting barrel
Pyro-Dux treated for the
1985 Super Shoot now.**

\$25.00 plus U.P.S. Charges

Ship to: Sure-Cut Tool Company
Midway Lane
Oak Ridge, Tenn 37830

**Pyro Dux treatment will give
longer barrel life, higher velocity,
and improved accuracy.**

A.E. PENNEBAKER CO., INC.
(803) 235-8016 or write
P.O. Box 1386,
Greenville, S.C. 29602

To one who reads the equipment lists closely, there are just too many shooters of top-flight ability using one or another of the .222-½ variants to ignore. It would appear that the increased velocity possible is a real advantage, particularly at the 200 yard mark. In 6mm, we are seeing a similar move start, spearheaded by Dave Hall's "improved 6 x 47", which is an effort to get a bit more zip at 200 yards. Boughton has been experimenting for some time in this area, and is now working with his "6mm short", made from .308 brass. Overall length is 1.700" (43 mm), neck is .370" long, and shoulder is 28 degrees. It holds approximately 32 grains of 4895, and shows considerable promise in its limited testing to date.

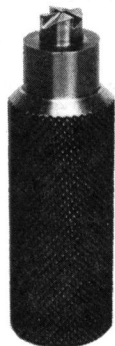
As bench rest shooters begin their winter hibernation, and start to formulate their plans and dreams for the coming summer matches, many of those who had the experience in the last year of watching a 222-½ perform in the hands of a skilled aficionado will reach a similar decision: they will call the Rochester, New York operator, and ask for the phone number of a fellow at 410 Stone Road named "Boughton".

— END —

Ted Boughton is no more; he sleeps the long sleep in a Rochester, New York grave. Ted was a bigger-than-life figure to me, all five feet, four inches of him. He was an individualist, with strong beliefs, and once Ted had decided that he was right on a specific issue . . . that was that. He had his strengths, and his weaknesses, as we all do. But I do . . . miss him greatly.

Ted's widow, Arlene Boughton, has been corresponding with me recently, and has said that she would like to hear from old friends. The address still is . . . 410 Stone Road, Rochester, New York 14616. If you knew Ted and Arlene . . . in the good old days . . . drop her a line.

MATCH PREP PRIMER POCKET TOOL



This competition-grade lifetime carbide tool cuts pockets to SAAMI specs, precise depth, bottom flat, for uniform primer seating conditions. Continued use keeps pocket clean. Specify large rifle or small rifle, each priced \$20 plus \$1 shipping. Whitetail Design & Engineering Ltd., 9421 E. Mannsiding Road, Clare, Michigan 48617

ORDER FROM



WHITETAIL DESIGN & ENGINEERING LTD.

Dept. PS, 9421 E. Mannsiding Rd.
Clare, Michigan 48617



Ted relaxes in a later photo, but it still looks like the same car.



Ted Boughton and Arlene Boughton, in his Rochester shop . . . a shop that sent out many fine shooting rifles. I suspect that Ted was (in this photo) attempting to straighten out one of the Editor's mechanical disasters (again).

The International Action

The photo on the February cover is a casual snapshot, and does not do justice to the new International action, which will become generally available in early March.

The Editor went to the first Winter-league match on January 6th, and since the Bay regulars had not seen each other in a few months, the tall tales flourished, the latest idea to set the benchrest world on its ear was dusted off and dragged out, and several brought items for an impromptu "show and tell" session. The Editor dragged up a prototype International action, and . . . melodramatic ham that he is . . . casually handed it to the nearest knowledgeable shooter, with a generally bored look on his face . . . and blew a couple dozen minds. Maybe I didn't do all that well in the match, but I sure won the "show and tell" section of the match, hands down. No one showed up with a German 88MM, with or without the Tiger tank underneath it . . . but if they had, they would have had to settle for second place. The informal action introduction at the Bay, to be followed by the bit-more formal introduction at the industry Shot Show in Atlanta in the following week, was extremely well received by a pretty savvy bunch of shooters.

The International action is a joint product . . . of Charles Puff, in Boston, Kentucky and Bill Wiseman, the principal of McMillan barrels, in Bryan, Texas. All sales, inquiries and service are to be handled out of the Texas location (see advertisement in any P.S. issue).

The action specifications, for our technical brethren, are as follows:

Locking lugs	45 degrees
Scope bases (for Weaver or Bushnell)	Integral
Length	6.75 inches
Weight	37 ounces
Diameter	1.450 inches
Barrel thread	1x16 TPI
Barrel Tendon	1.125 inch long
Bolt diameter	.875 inches
Bolt face depth	.120 inches
Bolt rotation	90 degrees
Bolt travel	3.1 inches
Firing pin fall	.180 inches
lock time	1.8 milliseconds

Material and hardness:

Receiver	4150/38 C core, 62 C case
Bolt body	4150/38 C core, 62 C case
Firing pin	4142/38 C core, 62 C case
Extractor	4140/38 C core, 62 C case

With the specifications out of the way, we can now address ourselves to the more vulgar, albeit more practical viewpoint of the

gentleman at the Bay who kept asking . . . "what does it cost . . . for Pete's sake, David . . . WHAT DOES IT COST?" The base price, less trigger is \$345.00 "in the white", or \$375.00 melonited (a hardening process which gives the action a silver-gray coloration as a by-product).

There is an unusual configuration to the front portion of the bolt, as you can see from the appropriate photo. Bill Wiseman, when asked to explain, compared the effect to two identical funnels, placed one inside the other . . . They will automatically line up. The designed cone effect had a great deal of similarity. Bill Wiseman relates that the gunsmith should have to do no menial tasks such as trueing up the action, or lapping of locking lugs or recoil shoulder with an International action.

Plans for the immediate future include a repeater model, employing a model 788 magazine, and intended for the hunter class, in the late spring.

Right now the firm is working to fill two orders for the military. The Marine Corps have ordered 18, intended to be 300 meter international guns, while the Air Force has come up with an interesting variant; they want theirs set up for the .300 Winchester Magnum, as 1000 yard guns. The Air Force order specifies two bolts per action; one with the Magnum bolt face, and one with the .308 bolt face. The Marine Corps had Bill Wiseman make up a complete rifle first. The order for 18 rifles followed shortly, so they must have liked what they found.

The accompanying photos are of the prototype model. The bottom view photo shows three substantial grooves on the

bottom portion. The production models will have the flutes on either side lengthened to the full length of the action. The purpose of the flute is to prevent torquing of the receiver in the stock under the stress of recoil.

The action is set up to handle the Remington or any of the other popular 2 ounce trigger conversions.

There are a limited number of options available at present for the benchrest model: integral recoil lug (\$17.00 white, \$20.00 melonited); complete extra bolt (\$130.00 white, \$145.00 melonited); triggers (\$95.00 Remington, \$100.00 Hart, \$90.00 Shilen); drilled and tapped for standard mounts, \$12.00; ejector \$35.00.

Delivery schedule is as follows: solid-bottom International benchrest action (choice of .222, PPC or .308 Bolt face) will be available for shipment in the first part of April. A hunter class version, with magazine (at slight extra cost) should be available in the spring and a magnum version, for the long distance shooters will be available mid-summer.

Finally, Bill Wiseman has been working on his own trigger, and he tells me that his pilot model has displayed great consistency at a setting "in grams", rather than ounces. Bill wants to do a lot more testing on this product, but it could well be available in late summer or early fall.

Address inquires to Bill Wiseman, P.O. Box #3427, Bryan, Texas 77801, phone #(409) 846-3990.

Late Addition: I spoke to Bill Wiseman shortly after my return from the January 6th match at Dunham's Bay. I told him that there was almost universal acceptance of the action prototype but Seely Masker had expressed reservations about the "slots" for the integral scope base system. A short time later Bill Wiseman called me back, and advised that it would be no trouble to provide the action without the slots and with four conventional scope base screws instead. They had intended to provide the Magnum actions without these cut-outs, so it was merely a matter of doing this a bit earlier. The client may specify which of the two possible scope mount systems (i.e., integral or conventional-without cuts) that he prefers. Also, if the matter of making weight is of concern, instead of 1.45 diameter, the action can be provided in 1.38 diameter instead, at no cost change. Going the other way, the 1.45 diameter may be increased a bit, at nominal price increase. Finally, I learn that there is a patent pending on the unique forty five degree angle bolt design of the International Action.

PRECISION CHAMBER AND BARREL WORK

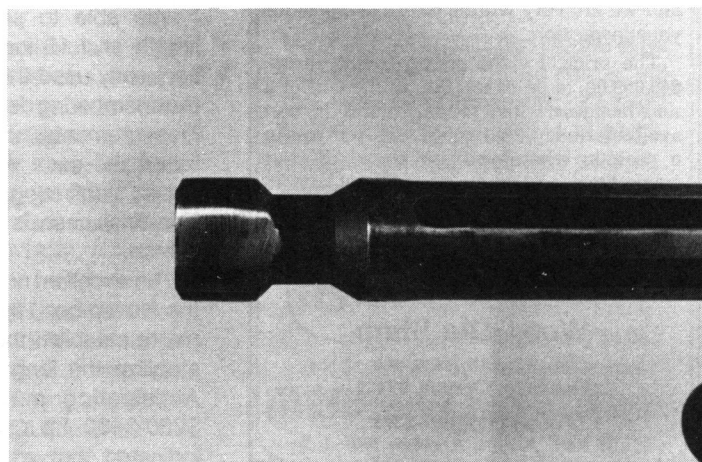
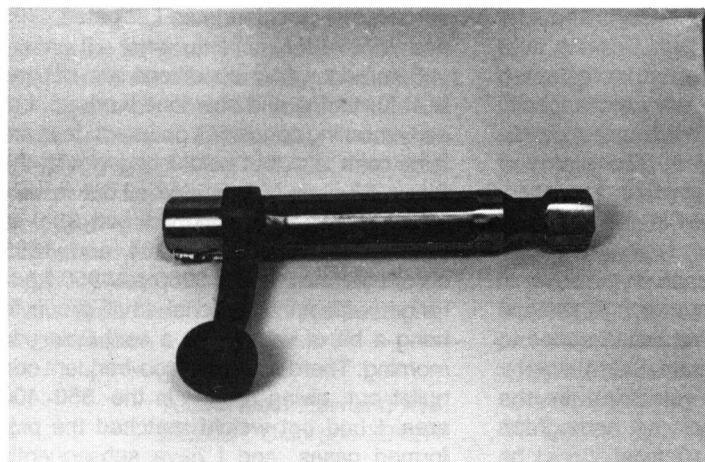
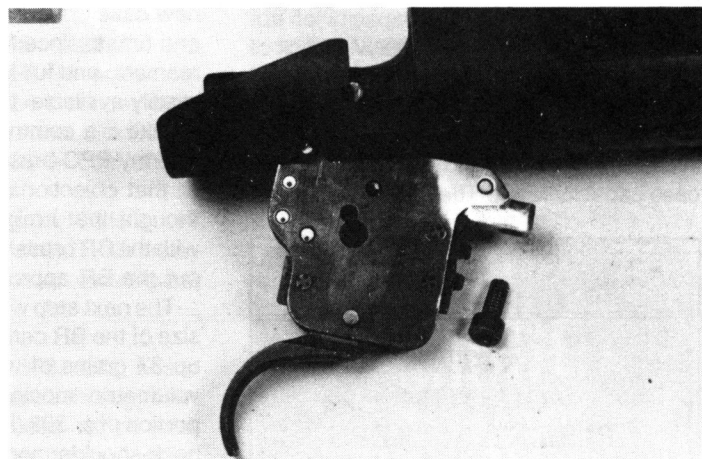
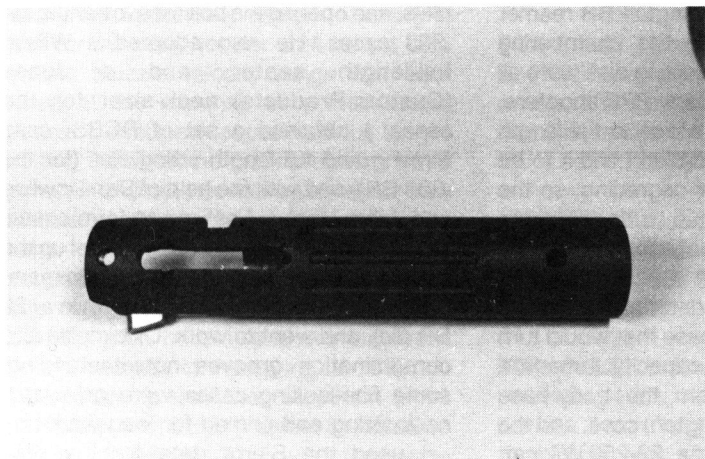
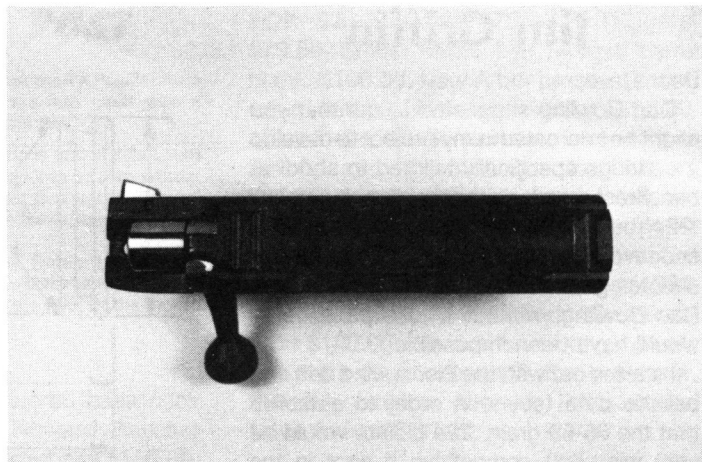
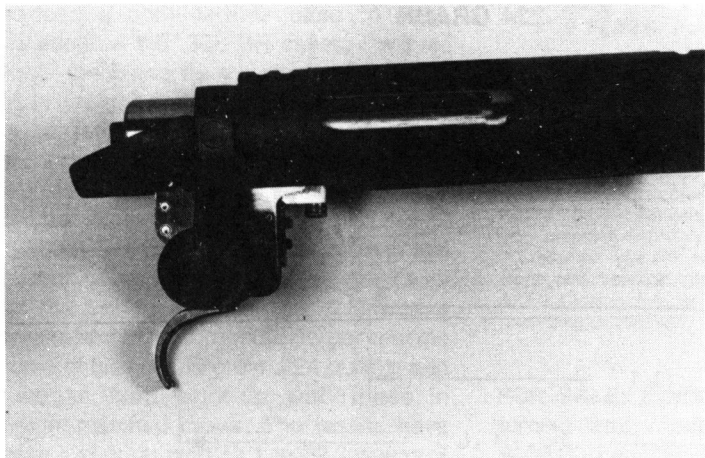
PILLAR BEDDING, BLOCK BEDDING, GLUE INS,
HANDMADE LOADING DIES, BLUEING

COMPLETE BENCHREST RIFLE SERVICES

Now offering NUTCRACKER DIES USING JONES
or WILSON buttons, with barrel orders or complete
rifle orders.

HAMMONDS GUN SHOP

R.D. 4, Box 504, Red Lion, Pa. 17356
(717) 244-7879



Jim Griffin

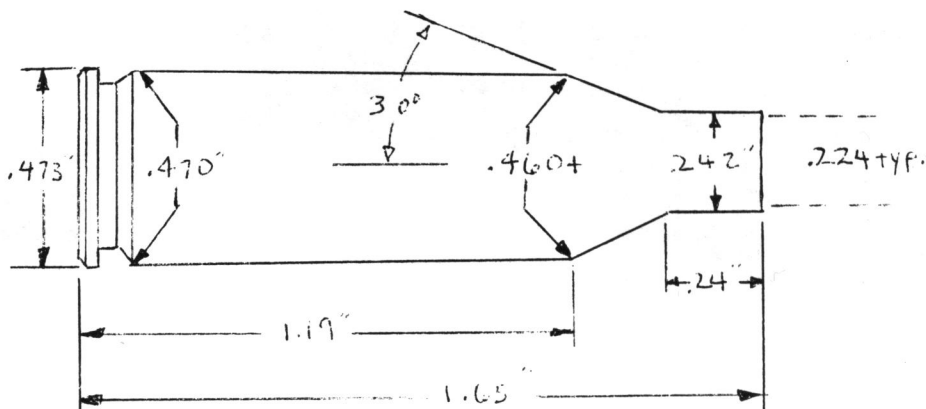
Dear Dave,

Dan Dowling suggested to me that you might be interested in my project to develop a cartridge specifically tailored to shoot at benchrest match distances, the new heavy .224 bullets. My co-conspirator in this endeavor has been kindly Mid-Continent shooter, gunsmith, and all around good guy Dan Dowling, without whose patience all would have been impossible.

I started out with the Sierra wind drift and ballistic data tables, in order to establish that the 65-69 grain .224 bullets would be very wind-drift competitive if shot in the 3200-3400 f.p.s. muzzle velocity range. High velocities would mean more felt recoil, but less velocity would negate the wind bucking performance which I was seeking.

Having established a muzzle velocity range in which I wished to operate, and with the .224 weights and sectional densities, I used my Powley Computer to obtain the proper case capacity. The research indicated a case having a capacity of approximately 37 grains of water. A check of case capacities, in grains of water, as well as cartridge tables, and P.O. Ackley's Volumes I and II showed only the .224 Weatherby and the .225 Winchester in this case capacity range. The alternatives were

.224 GRABR



to adopt one of the those two, blow-out the PPC (a 1a the Sand jammer), re-form .22-250 s, or whatever. Dan reminded me that the option to full length resize should be kept in mind, before reaching a final decision.

Although I was aware of its less than desirable history, we decided to base the new case upon the Remington BR reamer and brass, since forming dies, chambering reamers, and full-length sizing dies were all readily available. Like many PPC shooters, I make it a common practice to full length size my PPC brass, and didn't find it to be all that objectionable or degrading, so the thought that I might have to do the same with the BR brass was not enough to cancel out the BR approach.

The next step was to determine the exact size of the BR derived case that would turn up 37 grains of water capacity. I made a volumetric mockup from the body-base portion of a .308 (Remington) case, and the neck-shoulder portion of a .22-250 Wildcat. The body and neck sections were each weighed, filled with water (with care to level the meniscus), re-weighed, differenced, and summed to establish the volume of a homogenous case. A bullet had been seated in the neck section, in order that this portion of the mockup would have the correct volume. After several iterations of weighing and adjusting the length of the body section. I was able to set the base-to-shoulder length at 1.19 inches. Dan Dowling subsequently used this dimension to establish the chambering depth. Later water capacity measurements, using fired cases established the case volume at 37.2 grains of water, confirming the mockup approach. The final case is shown in the enclosed sketch.

The excellent nomograph on the cover of the November 1981 issue of P.S. allowed me to establish the barrel twist needed to stabilize the long 68 grain Sierra bullets. Anticipating muzzle velocities in the 3200-3400 f.p.s. range, the nomograph indicated that a 1 in 10 twist would be

appropriate, and would be just a little over-twist for 65 grain .224 bullets. (Editor: Harold Broughton tells me that Jerry Hart recommended 1 in 10, rather than 1 in 9 for this bullet).

Dan used his 22BR reamer to chamber a Hart barrel, 1 in 10 twist, in heavy varmint contour, fitted it to one of my benchrest rifles, and opened the bolt face to handle the .308 cases. He also adopted a Wilson full-length seater, and a Jones (Custom-Products) neck-sizer for the cases. I obtained a set of RCBS, case forming and full length sizing dies (for the .308 BR), and with the help of Dan Dowling and John Ambler, I set out to form cases. I used Dan's headspace gauge to set up the six dies (6 BR form dies #1, #2, trim ream, 6 BR full length, and final full length in a .22 BR die). and went to work. Oil dimples and contamination grooves notwithstanding, some fine-looking cases were produced, neck-sizing and primed for load work-up.

I used the Sierra data for the .224 Weatherby and the .225 Winchester to guide my starting loads, since my case fell between these two cases in capacity I noted that this data indicated that 4320, 4064, and WW-760 were the powders to use, with loads in the 30 to 32 grain range for the heavier 69 grain bullet. Since this case is not greatly different than the PPC in case capacity, I made a note to include some faster powders, and I selected 4895 and WW-748.

Colorado winter conditions are not the best for tuning and new load work-up, but early morning conditions on select days are fairly calm . . . but cold! I began with the Sierra 69 grain bullets, seated out to very light contact and confirmed that 30.0 to 31.5 grains of 4320, 4064 and 4895 chronographed in the 3250 to 3350 f.p.s. range, with an occasional small group to bring a bit of warmth to a cold Colorado morning. There was an all-too-frequent odd bullet out, giving groups in the .350-.400 area. I had not weight matched the pre-formed cases, and I have subsequently

FOR SALE

ATTN: CUSTOM BULLET MAKERS

Tired of having to depend on outside sources of supply for your jackets?

Wish to be able to control your jackets quality, and specifications?

Want a better quality .22 and .24 caliber jacket than you can buy?

We have drawn dies that we will sell, in these calibers. Production rate is 4,000 to 5,000 jackets per hour.

This is a new method of drawing jackets, and we are very willing to run samples for your inspection.

The price, for the set-up is not cheap. \$40,000.00, to be exact. But, as the cost of a new business, with a product that is the best available today, that could well put you in a position where you are ahead of your competitors, and where you will not have to ever again depend on outside sources of supply . . . the price is both fair, and realistic.

Contact

Wood Die Shop

Rt. #1, 412 Hemlock
Florence, Oregon 97439

Phone (503) 997-3275

noticed a considerable case to case variation on the .308 BR cases. I will re-shoot the Sierra 69 s in new cases made from weight-matched brass, and with bullets selected for base to ogive consistency, in the manner that was described in Fred Sinclair's recent letter in the December issue.

About this time, the basic philosophical outlook of my life took a pronounced turn for the better. As turns go, this was a tire-screaming U-turn. Walt Berger sent me some of his new 65 grain .224 bullets, and I began load work-up with these in weight-matched cases. The results have been just great with 32.1 to 32.7 grains of WW-748 and Remington 7½ primers giving excellent and repeatable groups. I believe that these loads are in the 3200-3400 f.p.s. range, and I intend to chronograph the WW-748, H 4895 and IMR 4320 combinations soon, weather and Christmas permitting.

As for results to date, the project has shown enough promise to indicate that the concept of specifically design matching a case for the new, heavier .224 bullets at a specific muzzle velocity range has succeeded at the expense of a little elbow grease. I anticipate occasional full length resizing, however no case problems have surfaced to date! I do realize however that the real proof of the pudding, as far as the bench rest world goes, is in measured groups fired in match competition. I have an order with Walt Berger for a batch of his .224 65 grain bullets, and we will work toward matches in the spring of 1985.

Dan Dowling also chambered a 1 in 14 twist barrel with a 6 BR reamer to the same case length as the .22. I will interchange barrels, and work up loads for 6 MM, 68 grain and 65 grain bullets for comparison with the .224 bullets of similar weight, and in the 3200-3400 f.p.s. range.

All the recent case projects seem to have animal related names: Aardvark, Coyote, Waldog, etc. This one has been named the GRABR, for Griffin, Adopted, Bench Rest, in honor of the basic case.

After writing all the above, I held off mailing the letter until I could chronograph what appeared to be the design load, mainly 32.4 grains of WW-748 powder with the Berger 65 grain .224 bullets. The chronograph gives a reading of 3,405. I've yet to work with the seating depth, and these were fired with un-matched (weight) cases.

This is my first wildcat, and I gather, as I read my letter, that I did get a bit wordy. If you would like, I will keep you posted on further results.

Jim Griffin
10635 West Rowland Ave.
Littleton, Colorado 80127

TRADING POST

One man's "Junk" is another man's "Collector's Item!" Turn your surplus items into cash with a Trading Post ad. ORDER FROM EDITOR.

Groups of figures, abbreviations and initials count as words. Hyphenated word counts as two words. Name and address of advertiser is counted. Use full words instead of initials and abbreviations and make your meaning entirely clear.

Classified type ads: no display. **Rates:** 15 cents per word per insertion, prepaid. Minimum charge is \$1.50. Closing date for ads is the 20th of the month preceding publication.

FOR SALE: Electric powered case neck turning lathe made by Howard Baucher \$400.00. Leupold 20x, crosshairs \$150.00. Lyman 20x All American crosshairs, \$125.00 plus shipping. Don Howell, Box #66, Gardner, Kansas 66030.

FOR SALE: *Shooters News Magazine*. 1953, '54 and '55 complete, plus August 1951 and December 1952. The lot \$35.00 postpaid. Herb Aitken, 532 Summit Ave, Eau Claire, Wisconsin 54701.

FOR SALE: Benchrest rifle, .222-35° and 6x47-35° barrels. Shilen DGA action. Includes 30x Leupold-Siebert scope, dies, etc. Rifle made by Art Freund. Jim Gilbert (904) 795-7722. \$1,000.00 or best offer.

WANTED: Benchrest quality bullets, .17 caliber (.172 diameter). Write T. G. International, 13368 Sycamore, Southgate, Michigan 48195.

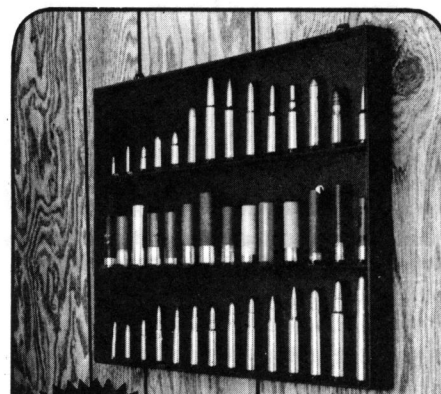
FOR SALE: Unlimited .308, 40x action sleeved by Hart, 1000 rounds through Hart barrel, 2 oz. trigger, wood stock with thumbhole grip, 24x Unertl scope, hand dies included. \$800.00 firm. Custom .270 built on Rem 700 action, Douglas xx 24 inch barrel, camouflaged by hand, brown precision fiberglass stock, Redfield rings and bases, Zeiss 3-9X scope, and Mequin target loading dies included, \$1,000.00 firm. Eddie Wrenn, Route #1, Box 259, Roanoke Rapids, N.C. 27870. Phone (919) 537-8985 after 7:00 P.M. E.S.T.

FOR SALE: .22 caliber bullet making dies, made by Pat McMillan. Steel dies, excellent condition. Want to sell, or trade for Shilen or Wichita action with magazine port in bottom. Need 308 bolt face, excellent condition. Note: no squirt die. Ralph Council, 1038 Kenrick, Houston, Texas 77032. Phone (713) 449-1832.

WANTED: .264 cal bullet dies, .264 bullet jackets, 6MM jackets .900 or longer, complete F & H mechanical rear rest, accurate jacket boring machine and caliber. Bill Crosby, P.O. Box 125, Edmonds, WA. 98020 (206) 743-2477 after 9 P.M.

FOR SALE: Canjar 700 LP Triggers, \$79.50. Sherer 6MM, 1 in 14 twist barrel blank, \$100.00. New Arbor presses, spring return \$50.00. New Sako actions \$250.00. Micrometer neck turners, one caliber \$85.00 and up. Mitutoyo dial calipers \$52.50. Mitutoyo tubing (neck wall) micrometers \$52.50. New Sako A III trigger guard, white \$30.00. Used Weaver T-6 crosshairs \$150.00. Lyman-Siebert 36x, dot \$200.00. Lyman-Siebert 32x crosshairs \$180.00. We also tune bongo drums and paint church steeples. Seely Masker, 261 Washington Avenue, Pleasantville, New York 10507.

FOR SALE: Shilen .222 Rem DGA action benchrest single shot rifle with Buehler mounts, 24x Leupold 1/8 dot scope, stainless steel select match grade barrel, competition trigger, neck dies, light varmint class \$750.00. Ruger .308 Winchester Varmint with 6x Redfield, floated and bedded \$300.00. Ruger .220 Swift single shot 12x Leupold, beautiful piece of wood, \$375.00. All of the above are in like new condition, as they belonged to my brother who was killed in an airplane accident. R. A. Price, Rural Route #1, Tolna, North Dakota 58380.



NEW Cartridge Display Board from MTM

Made of high impact plastic, the **MTM** Cartridge Display Board holds 42 metallics and/or shotshells; .22 Short to 600 Nitro Express, 410 to 10 gauge. Unique clips hold each item securely. Perfect for displaying your collection at home or the office.

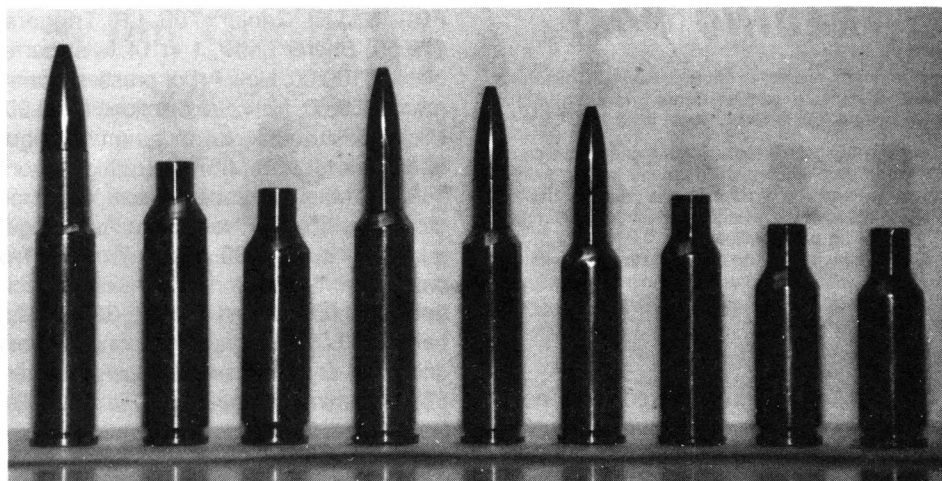
15 3/4" x 13" x 1 3/16"

\$19⁹⁵

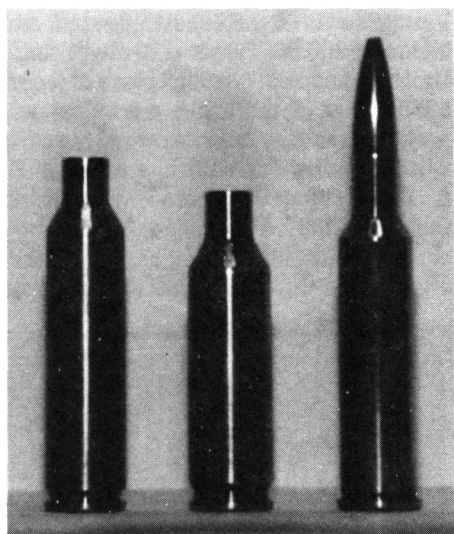
New full color **MTM** Catalog now available - only \$1.00

(Add \$2.00 if ordering from the manufacturer.)

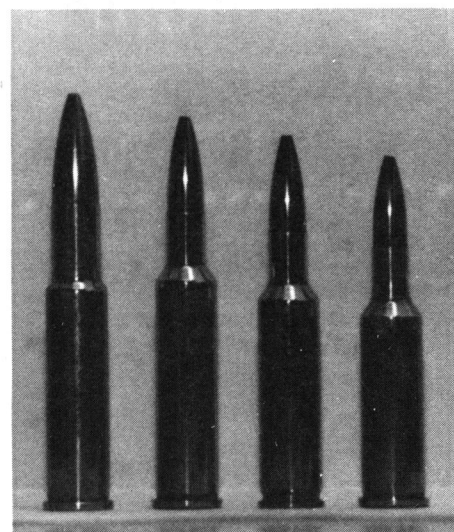
MTM Molded Products Company
P.O. Box 14117 • Dayton, Ohio 45414



WILDCAT PLAYGROUND (from left to right): .30 Aardvark, 6 SGH (Speedy Gonzalez Hunter), the 6x44, Coyote hunter class, .240 Coyote, .224 Coyote, 6MM SM Wasp (Seely Masker), standard 6PPC, PPC Coyote.



Hunter class wildcats (from left): Speedy Gonzalez Hunter, 6x44, Coyote Hunter.



The Harold Broughton line (from left): .30 Aardvark, Coyote Hunter, .240 Coyote, .224 Coyote.

Harold Broughton

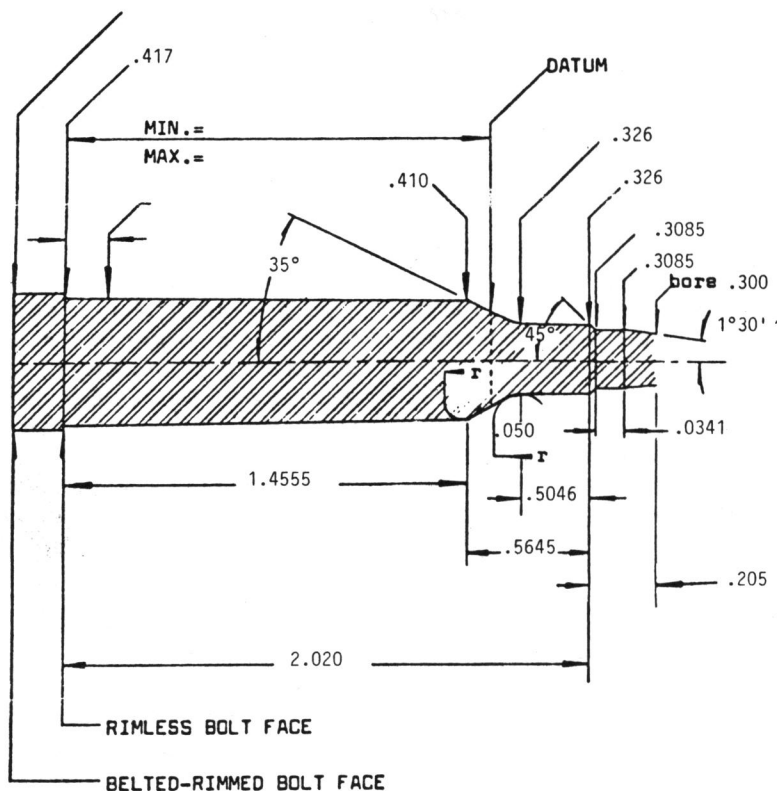
Dear Dave,

Here are the drawings that you requested, the .30 Aardvark and the .220 Coyote #2.

I am also enclosing some cases for you to contemplate and be inspired by, first the .30 Aardvark, a 6 MM Coyote #2 with the rim turned and extractor groove cut for the PPC bolt face, the .220 Coyote #2, and the .240 Coyote Hunter for NBRSA hunter class matches.

By the way, Jerry Hart recommended the 1 in 10 twist for the new Berger "heavy" .22 caliber bullets.

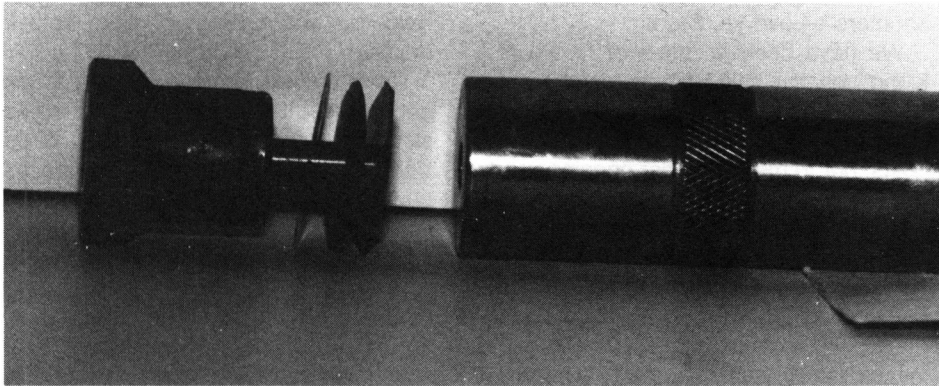
MINIMUM CHAMBER DIMENSIONS, CALIBER 30 AARDVARK



BODY, ITPI .0048
 NECK, ITPI 0
 RESIZE N.D. .322
 BRASS Modified 30/30
 DESIGNED BY HAROLD BROUGHTON

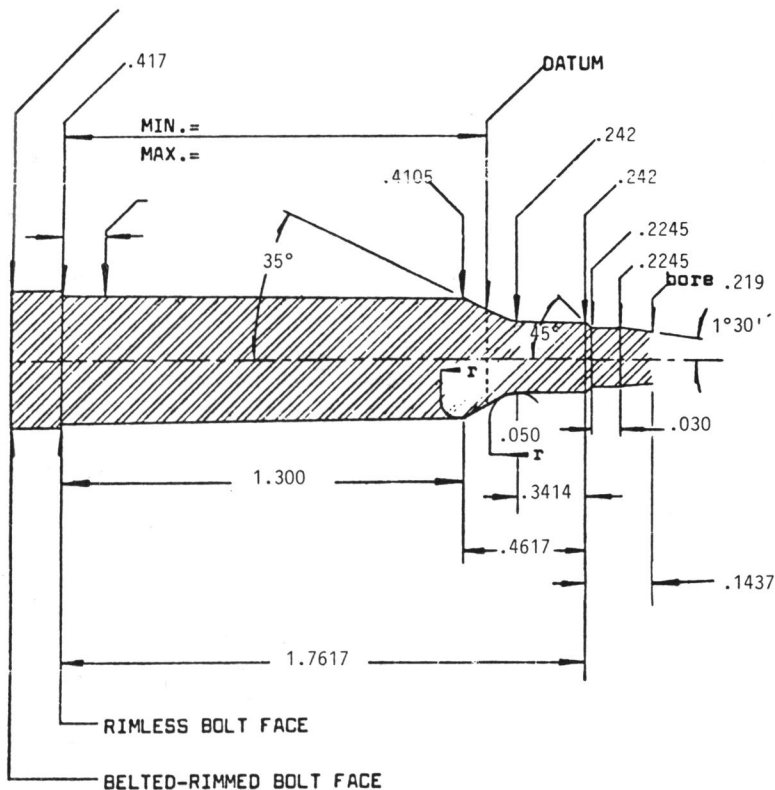
More on Seating Depth

by
Jim Borden



Wilson seater showing how shims are placed.

MINIMUM CHAMBER DIMENSIONS, CALIBER .220 COYOTE #2



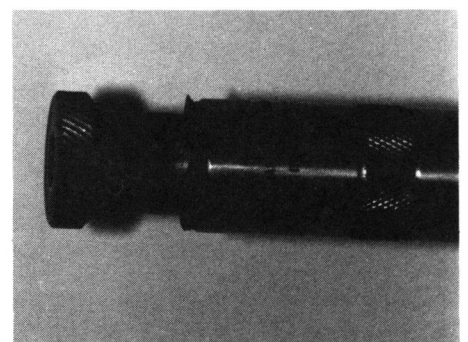
BODY, ITPI .005
NECK, ITPI 0
RESIZE N.D. .238
BRASS MODIFIED 30/30
DESIGNED BY HAROLD BROUGHTON

The last few issues of the magazine have carried articles on bullet seating depth. Many of the individuals have noted the amount of seating depth change for one rotation of the plunger screw on the Wilson seating die.

I have adopted a system that Brian Rubright showed me about three years ago. The system requires having the plunger set for enough length to have the bullets jump about 0.040 inch. The seating depth is then varied by placing plastic shim stock on the plunger shaft, between the plunger head and the die body. This of course turns up to the exact same result as screwing the plunger out. The system allows quick changes in seating depth. Let's say that we are jumping bullets 0.040 inch, and we decide that we want them 0.010 into the lands. We would simply place 0.050 of shim stock on the plunger. The shim stock is color-coded. The brand I use happens to have orange for 0.030, yellow for 0.020, brown for 0.010, blue for 0.005, and amber for 0.001. In order to get it, I had to buy large sheets, and in fact I found it rather hard to locate. I have cut the large sheets up into one inch squares, with holes punched in them. The surplus pieces have been packaged with 1-0.020, 2-0.010, 2-0.005, and 2-0.001 shims per pack. I will be selling them for \$1.50 per package, not as a get rich venture, but rather to make them available to shooters who wish to experiment with seating depth variations.

Two photos are enclosed, showing how to shim stock is used on the seating die.

Address is as follows: Jim Borden, R.D. #1, Box 244A, Tunkhannock, PA. 18657.



Wilson seater with shims in place.

Dr. Lou Palmisano

Dear Dave,

The pen is so much harder to wield than the scalpel . . . and the prognosis after the use of either is often "guarded". But rumor is as insidious as cancer, so here goes an ex-surgeon's attempt to cut it out.

I am referring to the myth regarding the unavailability of the PPC Sako cartridge case.

If shooters were so concerned about not having cartridge cases in 1985, I cannot, for the life of me, fathom why no one ventured to get to the truth by going to the source and originators.

I think that the benchrest shooting fraternity has a right to know the true situation, and why and how it developed.

Ferris Pindell and I are grateful to both the NBRSA and IBS shooters whose trust, patronage, and skillful usage has made the PPC the "darling of the decade", as I

believe Jon Leu so generously referred to it.

Don't get me wrong . . . as the expression goes, "Some of my best friends are Remington BR and triple deuce shooters". Love ya, Stan!

We have been accused of "making a killing" on the sale of brass in the past, when the truth is that our minimal profits have yet to cover early experimenting costs, not to mention other ongoing yearly expenses, especially insurance.

At the NBRSA Nationals this summer, one of my guests at dinner commented "I could afford to come to all of these shoots if I had your Sako brass monopoly".

I should have paid more attention during my English literature classes in school, but as I recall, some famous sage once said:

"Fight for them!

Die for them

But don't eat with them!"

It was the proverbial straw that broke the camels back. Later that evening I said to Ferris, "Let's get out, and leave it (the Sako brass franchise) up for grabs". Ferris' response and agreement were both immediate.

Upon arriving home, we notified Sako, and three interested benchrest dealers simultaneously of our termination of contract with Sako. All three dealers applied, but only Fowler Shooters Supply was willing to commit to the 300,000 minimum case order requirement of Sako.

Both the PPC Corp. and Fowler received written confirmation that as of January 1, 1985 Fowler Shooters Supply would be the sole importer of Sako brass for the USA and Canada.

Ferris and I have been dealing with Sako, of Finland, since 1975. I have come to know several directors and employees well (as my overseas telephone bill will attest). And we have learned to trust and respect their word as gentlemen . . . and business men.

Early and recent communication by both phone and letter with Sako's director of production, Mr. Jukk Lumme confirmed his promise to me personally and to Jef Fowler officially, that .220 Russian brass will arrive at the Port of New York no later than the first quarter of 1985.

Furthermore, the metalurgy, the extrusion, and the specs will remain identical to original PPC specifications. The Sako people have never broken their word to us, and there is no reason to believe that they will default now!

It is interesting to note that with Fowler's 300,000 case order, the total number of 220 Russian Sako cases imported in the USA will reach 1,000,000. Yet . . . three major ammunition firms in the USA have constantly refused to produce the brass here. No matter what size order was given them. Ah . . . free enterprise!

Perhaps with the relinquishing of our franchise, the shooters will realize that through these years Ferris and I have tried to make available to every shooter a good quality product at pennies above cost.

I am only sorry that the unfounded rumors caused an unexpected and unnecessary run to obtain cases, causing the present shortage. But I can assure PPC advocates that Sako, as always, will come through. I only wish that I could say as much for some American ammunition firms.

Best wishes to all for the new shooting season.

Respectfully,
Lou Palmisano

BOB PEASE ACCURACY

P.O. Box 787-S

(AC 512) 625-1342

New Braunfels, Texas 78131

BENCHREST EQUIPMENT & SUPPLIES

Adjustable Hex Torque Wrench
Benchrest Scopes and Mounts
B-Square rifle Rests & Arbors
Cauteruccio G.T.B. Benchrest Bullets
Corbin Cleaners, Laps and Lubes
Davidson Vise, Ramps & Shrouds
Federal Match Primers & Cases
Genuine Leather BR Sandbags
Hart Rifle Rest + 2 oz. trigger
Jones PA Dies, Tools & Clean rods
Kleinendorst Expandiron & Bolt tools
Marksmans, Sweet's and Hot Load Lube
Marquart Precision Neck Turning Tool
Redding Benchrest Micrometer Measure
Remington 40-XBBR, XB, and XC rifles
Sinclair Rod Guides and Case Tools
Wilson Seaters, Sizers & Trimmers

The Bob Pease Collections; spiral bound booklets.
Vol. I \$5.95 Vol. II \$6.95, both \$12.50 - first class mail.

OR

Send 40¢ stamped Business envelope for
15 page brochure with news & goodies

Write or call me at above address

MON - TUE - FRI - SAT Afternoons Best



IBS News

Edited by Dave Brennan

MAINVILLE

The Mainville Sportsmen's Club has sent in three match reports together, and completely mixed up the basically-simple-soul Editor . . . who has always had a great deal of confidence in his ability to deal with ANY PROBLEM . . . as long as he gets them one at a time.

Since I don't want to offend my Mainville friends with specific directions on this, I'll just give you a few comments:

- 1.) If you ask me to let the dog out, no problem . . . the dog goes out without problem.
- 2.) If you ask me to let the cat in, no problem . . . the cat comes in without problem.
- 3.) BUT . . . if you ask me to let the dog out, and cat in (at the same time) things are up for grabs . . . anything could happen.

With that caution out of the way, I'll now try to straighten out the Mainville parcel.

July 29th, 1984, 100 yard match. Hunter class (8 shooters): 1.) Vince Pastorella 246-6x, 2.) Ed Longo 245-5x, 3.) Garry Long 244-8x, 4.) Tony Hopkins 243-6x. Class winner Vince Pastorella fired a .308, Remington action, Weaver 6x scope, Hart barrel, 41.0 grains of 4895 with his own 168 grain bullets, in a rifle smithed by himself. Varmint hunter (2 shooters): 1.) Arnold Halye 248-11x, 2.) Ronald Gosciminski 245-9x. Class winner Arnold Halye fired a 6 PPC, Remington action, Weaver 6x scope, Hart barrel, 27.6 grains of H 322 with Fritz 62.7 grain bullets, in a rifle smithed by Fritz.

Varmint-for-score (11 shooters): 1.) Roger Rutkowski 250-19x, 2.) Paul Olewine 250-14x, 3.) Bill Theis 20-11x, 4.) Randy Fritz 250-10x, 5.) Thomas Messner 249-19x, 6.) John Racavich 249-15x, 7.) Bill Creasy 249-10x, 8.) Joseph Banik 249-7x.

On October 6th, for those who like such goings-on, the various hunter classes were contested at 200 and 300 yards.

Hunter class (6 shooters): 1.) Vince Pastorella 474-4x, 2.) Tony Hopkins 450-2x, 3.) Tom Svack 449-2x, 4.) Nick Yurchak 446-1x, 5.) Randy Fritz 444-2x, 6.)

Erwin Shinkle 435-2x. Class winner Vince Pastorella fired a .308, Remington action, Hart barrel, Weaver 6x scope, 41.0 grains of 4895 with his own 168 grain bullets.

Varmint hunter class (5 shooters): 1.) Bill Theis 479-3x, 2.) Joe Harvey 466-3x, 3.) Ron Gosciminski 457-2x, 4.) Jim Zeyn 455-1x. Class winner Bill Theis fired a .22 PPC, Remington action, Hart barrel, B&L 6x24 scope, 28.0 grains of 2460 powder with custom bullets.

Light varmint-for-score (3 shooters): 1.) Bart Wieder 486-4x, 2.) Tom Svack 477-8x. We note that Bart Wieder has fired what appears to be a new 300 yard agg record for this class with a 246-4x for the distance. Mr. Wieder fired a 6 PPC, Hall action, Sherer barrel, Leupold 36x scope, 27.0 grains of 322 with his own 69 grain bullets.

Heavy varmint-for-score (8 shooters): 1.) Tony Margelewicz 493-7x, 2.) Nate Boop 491-10x, 3.) Ed Starzinski 491-8x, 4.) Gary Ocock 489-3x, 5.) Roger Rutkowski 483-7x, 6.) Walter Malinski 477-1x, 7.) Paul Olewine 474-4x, 8.) Robert Lilly 467-0x. In this class Tony Margelewicz fired what appears to be another agg record at 300 yards for this class, a 247-2x to be exact. In his labors Mr. Margelewicz was assisted by a 6 PPC, Hart action, Hart barrel, Lyman-Siebert 36x scope, and 27.6 grains of 322 with BW 68 grain bullets.

On November 4th, many of these same demented souls came back for the final match of the year. This had been registered as a 200/300 yard match, but had to be switched to 100/200 because of "unforeseen target problems". Frankly when I showed up at Mainville for the Nationals this year, if there had been unforeseen target problems that had forced them to hold a horseshoe throwing match instead . . . I (with hindsight) believe that I would have been better off.

Hunter class (4 shooters): 1.) Vince Pastorella 478-18x, 2.) Tony Hopkins 464-8x, 3.) Charles Pardoe 450-7x. Mr. Pastorella fired the same rifle as before, and I refuse to go through that litany again.

Varmint hunter (4 shooters): 1.) Paul Olewine 479-10x, 2.) Randy Fritz 476-9x, 3.) Agnes Sabo 469-6x, 4.) James Zeyn

467-7x. Class winner Paul Olewine fired a 6x47, Remington action, Hart barrel, Lyman 6x scope, 29.4 grains of 748 with his own 70 grain bullets.

Varmint-for-score (5 shooters): 1.) Roger Rutkowski 492-11x, 2.) Geza Nagy 488-21x, 3.) Ron Gosciminski 487-12x, 4.) Todd Fritz 486-13x, 5.) George Ulrich 479-6x. Class winner Roger Rutkowski fired a 6 PPC, Hart 1A action, Hart barrel, Leupold 36x scope, 28.0 grains of 322 with Hart 70 grain bullets.

At the end of the match report the Mainville gang closed with the observation "The Mainville crew would like to apologize for starting the match an hour late, because we do not like to go to a match and start late; we are very sorry."

In the (thoroughly unlikely) instance that the Editor were ever to make a (small) mistake . . . he hopes that he carries off his apology with equal grace.

SOUTH CREEK

There were 33 shooters at Fassett, Pa. on December 30th; it was a bit above the freezing mark, with light winds. IBS officers, past and present, managed to make a creditable showing in the top ten ranking this day.

Top ten, 100 yards: 1.) George Stickler .2760, 2.) Tony Margelewicz .2878, 3.) Jeff Stover .2986, 4.) Bill Bailey .3106, 5.) Paul Ryan .3148, 6.) Floyd Stohner .3252, 7.) Frank James .3368, 8.) Bob DeMonstoy .3412, 9.) Jim Borden .3492, 10.) Carl Lynn .3638. Small group, George Stickler .121.

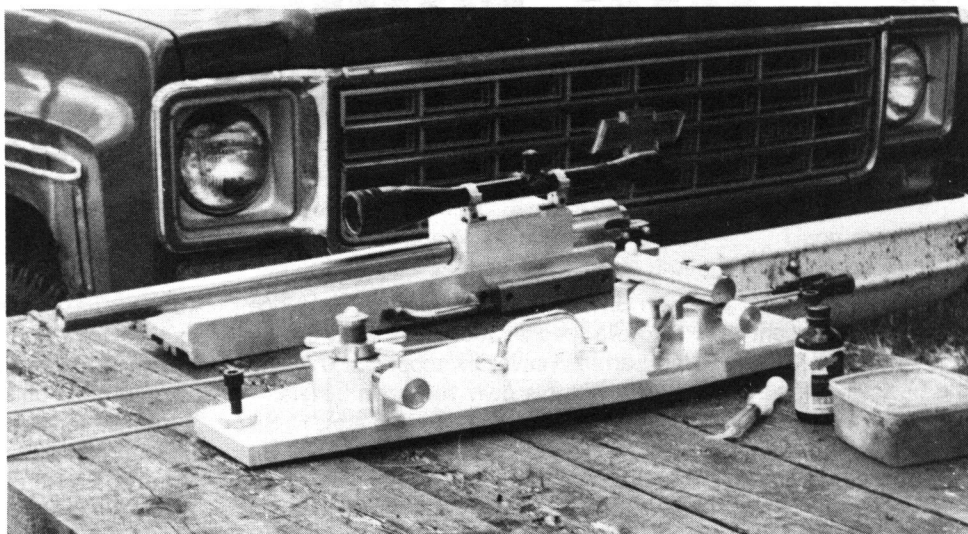
FASSETT

Twenty-five shooters found mild weather, but switching winds at South Creek on November 18th.

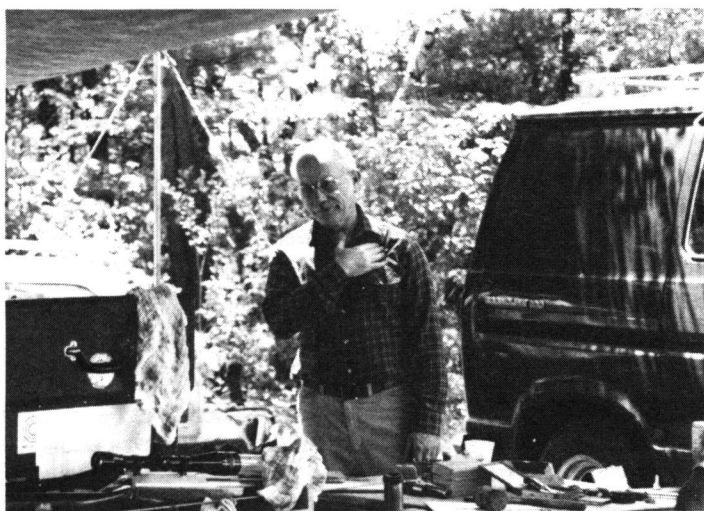
Top ten: 1.) George Stickler .3040, 2.) Art Blensinger .3124, 3.) Tim LeBarron .3160, 4.) Ed Starzinski .3232, 5.) Floyd Stohner .3624, 6.) Tony Hopkins .3644, 7.) Cecil Gamble .3744, 8.) Bob DeMonstoy .3774, 9.) Walter Malinski .3838, 10.) Frank Obrochta .3878.

Small group, a .172 by Mike Rosenswie.

JOHNSTOWN, 1984



This looks like a Bill Hall rail gun in repose.



Marlin Bassett assures someone that it was *NOT HE* who crossfired on their target.



Bob White and son do some loading, while Marlin Bassett wonders if he did crossfire.



Jim Greenawalt, stock painter par excellence.



The Steve Borsch family loading or something.



Walt Hodges, with the world's strangest shaped stock.



Tom Horenburg keeps an eye on the competition.



Rick Hornbeck explains barbershop singing to Charlie Fountaine and Ira Farnsworth.



Bob DeMonstoy



Tom Svack

WEIKERT

The Union County Sportsmen's Club held a registered 200-300 yard varmint-for-score match on September 30th at the Weikert, Pa. range.

At 200 yards: 1.) Nate Boop 248-4x, 2.) Dale Boop 247-1x, 3.) Brian Rubright 245-4x. At 300 yards: 1.) Nate Boop 244-2x, 2.) Dale Boop 243-3x, 3.) Bart Weider 241-4x. Grand agg: 1.) Nate Boop 492-6x, 2.) Dale Boop 490-4x, 3.) Bart Weider 485-7x, 4.) Russ Boop 485-3x, 5.) Brian Rubright 484-5x. Grand agg winner Nate Boop, of Mifflinburg, Pa. fired a 6 PPC, Hall action, Hart barrel, Leupold 36x scope, 27.0 grains of H 322 with Ocock bullets, in a rifle smithed by Ferris Pindell, and stocked by himself.

IBS WINTER MEETING Bulletin

Heavy Bench Class stays in the
Championship aggregate.

Nationals at Johnstown,
August 15-18

Details next month

ENGLISHTOWN

With the first three Winter League reports in from Englishtown, the results seem to suggest that the Nagys have settled down to taking turns beating up on their fellow shooters. As is usual for winter leagues in the Northeast, heavy varmint is the class contested, and the distance is 100 yards.

Match #1, October 27th, seven shooters: 1.) Joe Nagy .2458, 2.) Ron Rosen .2578, 3.) Geza Nagy .3210, 4.) Chet Mossakowski .3826, 5.) Bob Sahler .4890. Small group, Ron Rosen .107. Joe Nagy fired a 6 PPC, Hart 1A action, Hart barrel, Leupold 36x scope, 27.7 grains of H 322 with 70 grain Bruno bullets, in a rifle smithed by Hart.

Match #2, November 24th, 8 shooters: 1.) Joe Nagy .2400, 2.) Bob Sahler .2596, 3.) Frank Zarany .3464, 4.) Willi Sahler .3594, 5.) George Ulrich .4056. Small group, Willi Sahler .173. Rifle used was the same as above.

Match #3, December 22nd, 9 shooters: 1.) Geza Nagy .2836, 2.) Willi Sahler .3358, 3.) George Ulrich .3402, 4.) Joe Gismnco .4058, 5.) Bob Sahler .4096. Small group, Willi Sahler .166. Geza Nagy fired a 6 PPC, CPS action, Hart barrel, Leupold 36x

scope, with a load of 27.6 grains of H 322 with 68 grain Euber flat base bullets, in a rifle smithed by CPS.

SOUTH CREEK

In the December 2nd match at Fassett, Pa. there were 28 shooters on hand and Bill Bailey made a long ride up from West Virginia to show the other 27 of the lads how to shoot:

1.) Bill Bailey	.2540
2.) Tim LeBarron	.2952
3.) Chuck Frace	.3002
4.) Floyd Stohner	.3034
5.) Carl Lynn	.3052
6.) George Stickler	.3554
7.) Bill Gebhardt	.3646
8.) Tony Margelewicz	.3706
9.) Frank Obrochta	.4108
10.) Bob DeMonstoy	.4174

On December 16th Bill Bailey came back to South Creek, apparently feeling that he had apparently found a good thing. But this time the locals were waiting . . . in ambush. Ambush or not, the darn guy nearly carried it off again:

1.) Bill Gebhardt	.2698
2.) Bill Bailey	.2724
3.) Bob DeMonstoy	.2728
4.) Chuck Frace	.2786
5.) Tony Margelewicz	.2838
6.) George Stickler	.2986
7.) Floyd Stohner	.3108
8.) Paul Ryan	.3142
9.) Tim LeBarron	.3144
10.) Vince Pastorella	.3320

Small group honors went to internationally renowned photographer of beautiful women, stray dogs, and befuddled benchrest shooters, Tony Margelewicz, for his .155.



INTERNATIONAL
BENCHREST SHOOTERS

IBS OFFICERS

PRESIDENT

James F. Borden
R.D. #1 Box 244 A
Tunkhannock, PA 18657
Phone: 717-833-2234

1st VICE PRESIDENT & MATCH SCHEDULE

Richard Maretzo
67 Flaming Arrow Rd.
Mahwah, NJ 07430

2nd VICE PRESIDENT

Howard Levy
56 17th St., Apt. 3A
Jericho, NY 11753
Phone: (516) 935-2843

TREASURER

Robert DeMonstoy
1 Pioneer Rd.
Painted Post, NY 14870
Phone: 607-962-2240

SECRETARY

Tony Margelewicz
119 W. Main Street
Nanticoke, PA 18634
Phone (717) 735-1038

PAST PRESIDENT

Robert A. White
R.D. 1 North Rd.
Chester, NJ 07930
Phone: 201-879-5662

RECORDING SECRETARY

Evelyn Richards
411 North Wilbur Ave.
Sayre, PA 18840

IBS EDITOR

David D. Brennan
37 Burnham Street
East Hartford, Conn. 06108
Phone: (203) 289-8775
Work (203) 643-1157

INTERNATIONAL BENCHREST SHOOTERS APPLICATION

Name
Address
City State Zip

IBS MEMBERSHIP

- () IBS membership and PS for one year — \$20.00
() Associate member (no magazine) other members of same household — \$7.00
() Junior member (no magazine) under age 16 — \$4.00
() Club Affiliation and PS for one year — \$20.00
() Foreign Membership
Surface Mail — \$32.50
Air Mail — \$50.00
() New () Renewal

MAIL MEMBERSHIP TO:

EVELYN RICHARDS
411 N. Wilbur Ave., Sayre, Pa. 18840

For membership make checks payable to IBS.

PRECISION SHOOTING SUBSCRIPTION

- () Precision Shooting, one year — \$15.00
() Precision Shooting, two years — \$25.00
() Precision Shooting outside U.S. & Canada —
\$22.50 each year, or \$40.00 air-mail
SUBSCRIPTION CHECKS NOT DRAWN ON
AN AMERICAN BANK WILL BE RETURNED
() New () Renewal

MAIL PRECISION SHOOTING MAGAZINE SUBSCRIPTION TO:

PRECISION SHOOTING
5735 Sherwood Forest Drive, Akron, Ohio 44319

For subscription ONLY make checks payable to
Precision Shooting.



NBRSA News

Edited by Dave Brennan

GREENVILLE

Forty six shooters descended on Greenville, South Carolina on the weekend of September 15 and 16th for the four class 100 yard matches put on by Ed Watson's Club. We now know that a nasty, switchy little wind arrived in Greenville about the time they called "commence fire" on Saturday morning. Both the shooters and the wind were determined . . . they each hung around all weekend.

Saturday morning was the heavy varmint class firing, and both Wendell Dean and Tony Boyer turned in identical .2060 agg figures. That is pretty darn good shooting . . . and a pretty darn tight race as well. Top ten: 1.) Wendell Dean .2060, 2.) Tony Boyer .2060, 3.) Ted Manning .2100, 4.) Jack Canupp .2340, 5.) Kenny Jarrett .2380, 6.) James Coffey .2474, 7.) Ed Pennebaker .2624, 8.) Doug Hubbard .2704, 9.) Nick Young .2704, 10.) Meredith McNair .2826. Small group, Kenny Jarrett, .108.

Ted Manning, of Salem, Virginia took the 10 shot unlimited class honors, with the only agg under .300 . . . although the Manning .2998 agg was cutting it just a bit close for that particular claim to fame. Top ten: 1.) Ted Manning .2998, 2.) Nick Young .3192, 3.) Ed Watson .3376, 4.) Faye Boyer .3454, 5.) Tony Boyer .3482, 6.) Jeff Summers .3486, 7.) Ed Pennebaker .3560, 8.) Kenny Jarrett .3586, 9.) Jack Canupp .3744, 10.) Larry Earp .3750. Small group, Tom Van Landingham .216.

On Sunday morning, the wind had a chance to pick up a bit of needed rest during the night hours, and that was an end to the "near .200" aggs. Doug Hubbard and James Coffey had a little brawl over the first place trophy in the light varmint class and no one else was anywhere near them. Top ten: 1.) Doug Hubbard .2834, 2.) James Coffey .2854, 3.) Kenny Jarrett .3122, 4.) James Hare .3252, 5.) Ed Watson .3412, 6.) Ed Pennebaker .3578, 7.) Tony Boyer .3602, 8.) Wendell Dean .3614, 9.) Jerry Shelton .3700, 10.) James Messer .3816. Small group went to James Messer for his .162.

Finally, on Sunday afternoon, the sporter class, and once again Ted Manning won the

afternoon shindig: 1.) Ted Manning .2596, 2.) Jeff Summers .2630, 3.) Nick Young .2752, 4.) Gary Faulk .3028, 5.) Larry Earp .3082, 6.) Jack Canupp .3136, 7.) Danny Regans .3182, 8.) Tony Boyer .3236, 9.) Kenny Jarrett .3242, 10.) James Coffey .3330. Small group went to James Hare, for a .153 target.

Four gun honors were tightly contested . . . Ted Manning had own two classes outright, and had a third place and a fifteenth place to go into the calculation. Kenny Jarrett had a third, a tenth, an eighth and a ninth; Tony Boyer was hanging in there with a second, a seventh, a fifth and an eighth. Top ten: 1.) Ted Manning .2922,

2.) Kenny Jarrett .3083, 3.) Tony Boyer .3095, 4.) James Coffey .3154, 5.) Wendell Dean .3264, 6.) Jeff Summers .3397, 7.) Jack Cannup .3413, 8.) Nick Young .3449, 9.) Ed Watson .3471, 10.) Ed Pennebaker .3499.

Winning Equipment: The Editor has long felt that 100 yards shows much more about equipment than does a grand agg . . . since a windy 200 yard stage will often negate the finest equipment around. Since we have here four classes, all at 100 yards, we're going to cheat . . . just a bit . . . and give you the top ten equipment listing, as provided by Ed Watson.

EQUIPMENT LISTINGS ON NEXT PAGE

DESOTA

The Mill Creek gang, in Desota, Kansas finished off their shooting season on October 6th and 7th, and then everybody went into hibernation for the winter. In a way there can be something discouraging about winning the last match of the season . . . you finally get your act together, your difficulties sorted out, and what happens . . . the season's over!

Unlimited class (4 entries), 100 yards: 1.) Larry Engelbrecht .3056, 2.) Jim Burks .3332, 3.) Bob Love .4566. Small group, Larry Engelbrecht .212. At 200 yards: 1.) Larry Engelbrecht .5156, 2.) Bob Dodd .6105, 3.) Bob Love .6383. Small group, Larry Engelbrecht, .570. Grand agg: 1.) Larry Engelbrecht .4106, 2.) Jim Burks .5021, 3.) Bob Love .5474. Grand agg winner Larry Engelbrecht, of Wichita, Kansas fired a .222, Stolle action, McMillan barrel, Unertl 24x scope, and a load of 25.0 grains of H 335 with his own 52 grain bullets, in a rifle smithed and stocked by himself.

Light varmint class (17 entries), 100 yards: 1.) Larry Engelbrecht .1992, 2.) Herb Hays .2494, 3.) Gene Adkins .2530, 4.) Robert Haffner Sr. .2846. Small group, .125

by Larry Engelbrecht. At 200 yards: 1.) Gene Adkins .3009, 2.) Larry Engelbrecht .3214, 3.) Mike Bishop .3224, 4.) Larry Kuse .3268. Small group, Don Creach .335. Grand agg: 1.) Larry Engelbrecht .2603, 2.) Gene Adkins .2769, 3.) Herb Hays .2932, 4.) Robert Haffner, Sr. .3213. Grand agg winner, Larry Engelbrecht, of Wichita, Kansas fired a .22 Waldog, 40x BR action, McMillan barrel, Lyman-Siebert scope, an unspecified load, in a rifle smithed and stocked by himself.

Heavy varmint class (17 entries) 100 yards: 1.) Don Creach .2650, 2.) Marty Gordon .2820, 3.) Charlie Young .2820, 4.) Balen Stauffer .3018. Small group, Chas. Young .150. At 200 yards: 1.) Don Creach .4566, 2.) Karl Swenson .4714, 3.) Mel Estep .4878, 4.) Marty Gordon .5139. Small group, Don Creach .430. Grand agg: 1.) Don Creach .3608, 2.) Marty Gordon .3979, 3.) Mel Estep .4098, 4.) Karl Swenson .4181. Grand agg winner Don Creach, of Kansas City, Missouri fired a 6 PPC, 40x BR action, Hart barrel, Lyman-Siebert 30x scope, 28.0 grains of H 322 with Berger bullets, in a rifle smithed by Bob Brackney, and stocked by McMillan and Don Creach.

GREENVILLE GUN CLUB

TOP 10 EQUIPMENT LISTING

SEPT. 15-16, 1984

P	L	HEAVY VARMINT	CALIBER	ACTION	BARREL	G'SMITH	STOCKER	RIFLE WT.	SCOPE	BRASS	PRIMER	LOAD	BULLET
1	WENDELL DEAN	6 PPC	HART	HART	SINCLAIR	BOYER		10.5	LEU 36	SAKO	FED	28.5/H322	EUBER 68
2	TONY BOYER	6 PPC	HART 2A	WISEMAN	HOLLISTER	SELF		13.0	LEU 36	SAKO	FED 205	30.4/201	EUBER 68
3	TED MANNING	6 PPC	XP-100	MEMILLAN	SELF	SELF		10-4	LEU 36	SAKO	205	28/T322	ART 68
4	JACK CANUPP	6 PPC	40X	MEMILLAN	COFFEY	ELMO		10.5	LEU 24	SAKO	FED 205	25.3/4198 ^M	WATSON 62
5	KENNY JARRETT	6 PPC	SL. REM.	HART	JARRETT	JARRETT		10-6	LY/SIE 30	SAKO	FED 205	26/322	EUBER 68
6	JAMES COFFEY	6 PPC	40X	SHILEN	COFFEY	COFFEY		10.5	LY/SIE 30	SAKO	205	25.5/4198	COFFEY 63
7	ED PENNEBAKER	6 PPC	40X	PYRO-DUX HART	JARRETT HASECUSTER	JARRETT		10 1/2	LYM/SIE 30	SAKO	205	CF H322	WATSON 62.5
8	DOUG HUBBARD	6 PPC	SHILEN	MEMILLAN	STAMPER	SINCLAIR		10-8	LY/SIE 30	SAKO	205 M	25.7/4198	OWN 64
9	NICK YOUNG	22/35 SMF	SL XP-100	SHILEN	SCHIMPE	SELF		12-14	LY/SIE 36	SAKO	205 M	27.0/H335	OWN 55
10	MEREDITH MENAIR	6 PPC	REM 40X	ATKINSON	JOINES	COFFEY		12-10	LEU 36	SAKO	FED	26.5/H4198	WATSON 62.5
UNLIMITED													
1	TED MANNING	6 PPC	XP100	SHERER	SELF	HALL		48	LY/SIE 30	SAKO	205	28/T322	ART 68
2	NICK YOUNG	22/35 SMF	SL XP100	SHILEN	SCHIMPE	SCHIMPE		33	LY/SIE 36	SAKO	205 M	27.0/H335	OWN 55
3	ED WATSON	6 PPC	HALL	HART	BROUGHTON	HALL		37	REDFIELD 28	SAKO	FED 205 M	28/T322	WATSON 62.5
4	FAVE BOYER	6 PPC	SL 40X	WISEMAN	HOLLISTER	BOYER		18	LEU 36	SAKO	205 M	28/T322	EUBER 68
5	TONY BOYER	6 PPC	SL 700	WISEMAN	BROWN	BROWN		13	LEU 36	SAKO	205 M	25.5/T322	METZGER 65
6	JEFF SUMMERS	6 PPC	SL 700	HART	JARRETT	SELF		42	LY/SIE 30	SAKO	F-205	25/I 4198	WATSON 62.5
7	ED PENNEBAKER	6 PPC	XP 100	PYRO-DUX HART	HASECUSTER	PROPPES		65 1/2	LY/SIE 25	SAKO	205 M	CF H322	WATSON 62.5
8	KENNY JARRETT	6 PPC	SL. REM.	HART	JARRETT	HALL		68	LY/SIE 30	SAKO	FED 205	26/322	EUBER 68
9	JACK CANUPP	6 PPC	40X	MEMILLAN	COFFEY	ELMO		10.5	LEU 24	SAKO	FED 205	25.3/4198 ^M	WATSON 62
10	LARRY EARP	6 PPC	SL 700	HART	JOINES	EARP		30	3200 28	SAKO	205	29/H322	EARP 65
CALIBERS			6MM PPC-153	22 CAL. PPC-6	6MM-T-3	22/35 SMF-3	6x47-2	ALL OTHERS-4					
ACTIONS			REMINGTON-139	SHILEN-12	HALL-9	HART-8	STOLLE-2	BRA-1					
BARRELS			HART-89	MEMILLAN-39	SHILEN-15	SHERER-12	WISEMAN 6	ALL OTHERS-10					
G'SMITHS			JARRETT-36	COFFEY-27	JOINES-22	SINCLAIR-20	HARE-11	ALL OTHERS-55					
STOCKERS			SINCLAIR-24	JARRETT-22	COFFEY-17	JOINES-11	HARE-11	ALL OTHERS-86					
SCOPES			LEUPOLD-89	LYMAN-76	REDFIELD-6	BRASS	SAKO-163	REM-4 FED-4					
POWDER			HODGSON-109	DUPONT-43	ALL OTHER-19	PRIMERS	FEDERAL-162	REMINGTON-9					
BULLETS			WATSON-78	EARP-15	EUBER-15	MESSER-14	COFFEY-12	ALL OTHERS-37					

GREENVILLE GUN CLUB

TOP 10 EQUIPMENT LISTING

SEPT. 15-16, 1984

P	L	LIGHT VARMINT	CALIBER	ACTION	BARREL	G'SMITH	STOCKER	RIFLE WT.	SCOPE	BRASS	PRIMER	LOAD	BULLET
1	DOUG HUBBARD	6 PPC	SHILEN	MEMILLAN	STAMPER	SINCLAIR		10-8	LY/SIE 30	SAKO	205 M	25.7/4198	OWN 64
2	JAMES COFFEY	6 PPC	40X	SHILEN	COFFEY	COFFEY		10.5	LY/SIE 30	SAKO	205	25.5/4198	COFFEY 63
3	KENNY JARRETT	6 PPC	SL. REM.	HART	JARRETT	JARRETT		10-6	LY/SIE 30	SAKO	FED 205	26/322	EUBER 68
4	JAMES HARE	6 PPC	SHILEN	HART	HARE	HARE		10-6	LEU/SIE 30	SAKO	205	25.5/4198	WATSON 62
5	ED WATSON	6 PPC	SL XP-100	HART	JARRETT	JARRETT		10-7	LY/SIE 30	SAKO	F 205 M	28/T322	WATSON 62.5
6	ED PENNEBAKER	6 PPC	XP 100	PYRO-DUX HART	JARRETT HASECUSTER	JARRETT		10 1/2	LY/SIE 30	SAKO	205	CF H322	WATSON 62.5
7	TONY BOYER	6 PPC	HALL	WISEMAN	HOLLISTER	KELLY		10 1/2	LEU 36	SAKO	205 M	27 3/4/T322	EUBER 68
8	WENDELL DEAN	6 PPC	HART	HART	SINCLAIR	BOYER		10.5	LEU 36	SAKO	FED	28.5/H322	EUBER 68
9	JERRY SHELTON	6 PPC	SL. 600	HART	JARRETT	SINCLAIR		10.5	LEU 24	SAKO	F 205	28/H322	OWN 65
10	JAMES MESSER	22 PPC	RXM	SCHNEIDER	JOINES	JOINES		10-6	LEU 36	SAKO	205	28/H322	MESSER 52
SPORTER													
1	TED MANNING	6 PPC	XP-100	MEMILLAN	SELF	SELF		10-4	LEU 36	SAKO	205	28/T322	ART 68
2	JEFF SUMMERS	6 PPC	HALL	HART	JARRETT	SINCLAIR		10-7	LEU 36	SAKO	F-205	25/I 4198	SUMMERS 62.5
3	NICK YOUNG	6/35 MFY	SL XP-100	SHILEN	SCHIMPE	SELF		10 1/2	LY/SIE 30	SAKO	205 M	31.0/H335	OWN 68
4	GARY FAULK	6 PPC	SL 700	HART	JOINES	EARP/FAULK		10 1/2	LEU 24	SAKO	205 M		EARP 65
5	LARRY EARP	6 PPC	STOLLE	MEMILLAN	JOINES	EARP		10-1	LEU 36	SAKO	205	29/H322	EARP 65
6	JACK CANUPP	6 PPC	40X	MEMILLAN	COFFEY	ELMO		10.5	LEU 24	SAKO	FED 205	25.3/4198 ^M	WATSON 62
7	DANNY REGANS	6 PPC	REM 700	HART	JOINES	EARP		10-7	LEU 36	SAKO	FED 205	28/4895	EARP 65
8	TONY BOYER	6 PPC	HALL	WISEMAN	HOLLISTER	KELLY		10 1/2	LEU 36	SAKO	205 M	27 3/4/T322	EUBER 68
9	KENNY JARRETT	6 PPC	SL. REM	HART	JARRETT	JARRETT		10-6	LY/SIE 30	SAKO	FED 205	26/322	EUBER 68
10	JAMES COFFEY	6 PPC	40X	SHILEN	COFFEY	COFFEY		10.5	LY/SIE 30	SAKO	205	25.5/4198	COFFEY 63

DESOTA

The Mill Creek Rifle Club, in Desota, Kansas hosted the Kansas State sporter and heavy varmint championships on September 1st and 2nd. They had some downright nasty conditions in the sporter 100 yard stage, as the austere reader will see from the match results. At 200 yards, one guy found which flag to watch.

Sporter class (20 shooters), 100 yards: 1.) Red Cornelison .3924, 2.) Rex Reneau .4026, 3.) Larry Engelbrecht .4098, 4.) Herb Hays .4424. Small group, Bud Rainwater .174. At 200 yards: 1.) Dennis Wagner .3541, 2.) Bob Dodd .5006, 3.) Mel Estep .5018, 4.) Lawrence Bolain .5354. Small group, Bob Dodd .466. Grand agg: 1.) Dennis Wagner .4269 (there's nothing like a 200 yard blow-out to settle who wins the match), 2.) Red Cornelison .4707, 3.) Bob Dodd .4899, 4.) Rex Reneau .4984. Grand agg winner Dennis Wagner, of Bethany, Oklahoma fired a .22 Walldog, Stolle action, Hart barrel, Leupold 36x scope, 25.0 grains of BLC-1, with his own bullets, in a rifle smithed by himself.

Heavy varmint class (24 shooters), 100 yards: 1.) Red Cornelison .2418, 2.) Charles Young .2450, 3.) Jim Burks .2628, 4.) Dennis Wagner .2744, 5.) Bob Dodd .2832. Small group Larry Kuse .131. At 200 yards: 1.) Rex Reneau .2818, 2.) Red Cornelison .3118, 3.) Mel Estep .3223, 4.) Dennis Wagner .3419, 5.) Gene Adkins .3702. Small group, Robert Haffner .300. Grand agg: 1.) Red Cornelison .2763, 2.) Rex Reneau .2936, 3.) Dennis Wagner .3081, 4.) Mel Estep .3109, 5.) Jim Burks .3304. Grand agg winner Red Cornelison, of Seminole, Oklahoma fired a .23-40, in a Williams Benchmaster action, Atkinson barrel, Leupold-Siebert 36x scope, 26.5 grains of BLC-1 powder with Berger bullets, in a rifle smithed and stocked by himself.

The Editor is, alas, unable to comment further on shooters who fire .23-40 cartridges in Williams Benchmaster actions, with BLC-1 powder, because of anonymous death threats to the P.S. editorial offices (which the F.B.I. has determined to have been all mailed from Seminole, Oklahoma) which prohibited a repetition of remarks about ladies in hoop skirts, stagecoaches out of town, and other such comments.

After writing this match report, I called Red Cornelison and found him in a thoroughly unhappy mood. I gathered he had just been watching the Heisman award on T.V., (actually Red been listening to it on the wireless) and completely disagreed with the Doug Flutie selection. "What's the matter with Red Grange?" he raged. I told him that I had voted for Bronco Nagurski myself, and we parted friends. I gather that Bronco was Red Cornelison's second pick.

FORT STOCKTON

It was only a medium-sized match, as matches go, but the cast of shooters had some pretty well-known names, so the October 6th and 7th Texas shindig was a tightly contested brawl.

Unlimited class, Texas State Championships with 22 shooters. Harold Broughton and Larry Baggett were tightly bunched going into the final 200 yard target, with Mr. Baggett the apparent winner, and looking even more like the winner after the final group came in at .600. But Harold Broughton threw a .329 down range for his final (ten shot) group, almost a new record, so they gave Larry Baggett the trophy with the word "second" on it. Some people just have to learn the hard way not to mess around with my P.S. columnists. At 100 yards: 1.) Harold Broughton .2838, 2.) Larry Baggett .2992, 3.) Jef Fowler .3108, 4.) T.J. Jackson .3200. Small group, Harold Broughton .195. At 200 yards: 1.) Mike Harte .3859, 2.) Harold Broughton .3892, 3.) Charley McIntyre .3905, 4.) Larry Baggett .3980. Small group, Harold Broughton .329. Grand agg winner Harold Broughton, of Big Spring, Texas fired his .240 Coyote wildcat, Remington action, 4 groove Shilen barrel, Lyman scope, an unspecified amount of 322 powder behind Snow bullets, in a Bill Hall rail gun rig that was smithed by himself.

In the heavy varmint class, again the Texas State Championships, the entry box showed 30 shooters, and the high level of shooting continued. At 100 yards T.J. Jackson started off with first three groups of .195, .176, and .180, and then T.J. apparently lost his condition, or his favorite wind flag, or something else important. At 100 yards: 1.) Jef Fowler .2338, 2.) Frank Wilson .2372, 3.) Larry Baggett .2484, 4.) Gary Sandlin .2656, 5.) T.J. Jackson .2730. Small group, Jef Fowler .138. At 200 yards Larry Baggett, who had fired the 100 yard stage with his wildcat, the .22 PPB, had switched to a 6 PPC at 200 yards, and the first two groups at the longer yardage (.653 and 1.057) did not exactly have the place clamoring for a Baggett autograph. Larry said the heck with it, and dragged out the .22 PPB again, and fired three final groups of .329, .342, and .374 which is passin' fair shootin' for a country boy. At 200 yards: 1.) Larry Baggett .2789, 2.) Howard Dietz .3130, 3.) Jef Fowler .3188, 4.) Leon Gass .3378, 5.) Tom Doss .3463. Small group, Gary Sandlin .268. Grand agg: 1. Larry Baggett .2636, 2.) Jef Fowler .2763, 3.) Frank Wilson .2980, 4.) Gary Sandlin .3115, 5.) Ken McIntyre .3168. Grand agg winner Larry Baggett, of Fort Stockton, Texas fired a .22 PPB, Stolle action, Shilen barrel, 36x Leupold scope, an unspecified amount

of T 322 with Berger bullets, in a rifle smithed and stocked by himself.

BUFFALO

The Buffalo (Wyoming) Rifle Club held a hunter class match and a sporter class match on the weekend of September 28th and 29th.

In the sporter class (12 shooters) the match report says "mild wind", but as I look over the 200 yard scores, I dunno might well be a Western understatement. At 100 yards: 1.) Bob Schneider .2296, 2.) Doc Nelson .2826, 3.) Nels Nelson .2972. Small group, Bob Schneider .150. At 200 yards is where the stats turn a bit gruesome: 1.) Huck Hutson .7816, 2.) Bob Schneider .8480, 3.) Nels Nelson .8798. Small group went to Nels Nelson for a .388, and don't ask me how he fired a respectable group like that with aggs like that. Grand agg: 1.) Bob Schneider .5388, 2.) Nels Nelson .5885, 3.) Huck Hutson .5966. Grand agg winner Bob Schneider, of Rawlins, Wyoming was firing a new rifle, in its first match! A 6 PPC, Stolle action, Shilen 4 groove barrel, Leupold 36x scope, 27.7 grains of H 322 with Watson 68 grain bullets, in a rifle smithed by Harold Broughton, and stocked by himself.

In the hunter class, with 11 entries, the 100 yard stage shaped up: 1.) Nels Nelson 245-6x, 2.) Huck Hutson 245-4x, 3.) Vernon Seely 241-3x. At 200 yards: 1.) Nels Nelson 238-2x, 2.) Huck Hutson 235-2x, 3.) Donley Darnell 230-1x. Grand agg: 1.) Nels Nelson 483-8x, 2.) Huck Hutson 480-6x, 3.) Vernon Seely 470-4x. Grand agg winner Nels Nelson, of Sheridan, Wyoming fired a .308, Remington action, Hart barrel, Lyman 6x scope, and an unspecified load, in a rifle smithed and stocked by Fred Sinclair. The winner fired the only .308 on the grounds said grounds being over-run by 6x44, 6 SCABB, 6 HLS, 6 Int. Imp., 6x50 and other assorted critters.

The official match report from Larry Mosebar (and Larry always did a superior job of match reporting) contains a sobering note Larry advises that he is moving from Story, Wyoming, to Lead, South Dakota.

Now my circle of friends, after a hard match, and after a few libations in the evening, has been known to come up with a few far-out ideas. But never has anyone ever proposed moving from Story, Wyoming to Lead, South Dakota. Why would a man do such a thing like this? The Editor will send a map of Rhode Island to the author of the best answer on this obscure puzzle. Be sure to enclose a Raisin-Bran box top with your entry.

NBRSA MATCH SCHEDULE

EASTERN REGION

CAMILLUS SPORTSMEN'S CLUB, Camillus, New York. Contact: Hank L. Gonnella, 420 Hawley Avenue, Syracuse, NY 13203. (315) 474-1746.

CHIPPEWA COUNTY SHOOTING ASSOCIATION, Sault Sainte Marie, Michigan. Contact: Joseph Haller, Rt. 1, Box 117, Nicolet Road, Sault Sainte Marie, MI 49783

CHIPPEWA RIFLE CLUB, Easton, Ohio. Contact: Mildred Spencer, 3016 Melv Drive, Barberton, OH 44203.

FAIRCHANCE GUN CLUB, Smithfield, Pennsylvania. Contact: Royce P. Leckemby, Rt. 2, Box 21, Smithfield, PA 15478. (412) 569-7973. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

April 20 — Tri-State Varmint Championships, 100 yards, heavy varmint, 9:00 am; light varmint 1:00 pm

April 21 — Tri-State Varmint Championships, 200 yards, light varmint 8:00 am, heavy varmint 1:00 pm

July 13 — Heavy varmint, 100 yards, 9:00 am; Pennsylvania State Championships, unlimited class, 100 yard, 1:00 pm

July 14 — Pennsylvania State Championships, unlimited class, 200 yards, 8:00 am; heavy varmint, 200 yards, 1:00 pm

Aug. 31 — Eastern Regional Championships, unlimited class, 100 yards, 8:30 am; 200 yards 1:00 pm

Sept. 1 — Eastern Regional Championships, 100 yards, heavy varmint, 9:00 am; light varmint 1:00 pm

Sept. 2 — Eastern Regional Championships, 200 yards, light varmint 8:00 am; heavy varmint 1:00 pm

FAIRFIELD SPORTSMAN'S CLUB, Fairfield, Ohio. Contact: Jay Fouts, 803 Cleveland Avenue, Hamilton, OH 45013. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

HOLTON GUN AND BOW CLUB, Holton, Michigan. Contact: Theodore Geldater, Jr. 3369 Woolkes Street, Muskegon Hts., MI 49444. (616) 733-2422.

KANE FISH AND GAME CLUB, Kane, Pennsylvania. Contact: Dick Lockwood, Box 112, Kane, PA 16735. (814) 837-6216.

KELBLY'S RIFLE RANGE, Marshallville, Ohio. Contact: George Kelby, 7222 Dalton Fox Lake Road, North Lawrence, OH 44666. (216) 683-4674. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

MACKINAC STRAITS SHOOTERS, St. Ignace, Michigan. Contact: Bud Hill, 11 South Boundary Road, St. Ignace, MI 49781.

McKINLEY B.R. SHOOTERS, Canton, Ohio. Contact: Harvey LaChat, 12085 Wooster Street, N.W., Massillon, OH 44646.

REED'S RUN RIFLE CLUB, Augusta, Ohio. Contact: Leora Demeter, 1907 Franklin Place, N.W., Canton, OH 44709. (216) 492-7986. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

SHELBY COUNTY DEER HUNTERS ASSOCIATION, Contact: Phil Jones, 414 Summit Avenue, Troy, OH 45373. (513) 339-4833. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

GULF COAST REGION

AUSTIN RIFLE CLUB, Austin, Texas. Contact: Frank Wilson, 4904 Rollingwood, Austin, TX 78746. (512) 327-0838.

BATON ROUGE RIFLE & PISTOL CLUB, Baton Rouge, Louisiana. Contact: Troy Smith, 1150 Seyburn Dr., Baton Rouge, LA. 70808 (504) 767-2235.

CENTRAL TEXAS BENCH REST SHOOTERS, INC., New Braunfels, Texas. Contact: Tom Doss, Route #2, Box 2203, Boerne, TX 78006. (512) 249-3389.

DIETZ RIFLE RANGE, New Braunfels, Texas. Contact: Howard Dietz, Star Rt. 1, Box 65, New Braunfels, TX 78130. (512) 885-4662.

FORT STOCKTON RIFLE CLUB, Ft. Stockton, Texas. Contact: Larry Baggett, 507 N. Main St., Fort Stockton, TX 79735. (915) 336-6278.

GREATER HOUSTON BENCHREST SHOOTERS ASSOCIATION, Houston, Texas. Contact: Ed Brown, 6511 Richwood St., Houston, TX 77087. (713) 649-7558.

HUB CITY RIFLE AND PISTOL CLUB, Lafayette, Louisiana. Contact: Louis Langlinais, 932 Hugh Wallis Road, Lafayette, LA 70501. (318) 235-8978.

MIDLAND SHOOTERS, INC., Midland, Texas. Contact: Jeff Fowler, P.O. Box 6421, Midland, TX 79701. (915) 563-4341.

NAVARRO GUN CLUB, Corsicana, Texas. Contact: Robert Hull, Box 488, Corsicana, TX 75110. (214) 872-1868

SAN ANGELO GUN CLUB, San Angelo, Texas. Contact: Buster Reed, 2409 Waco St., San Angelo, TX 76901. (915) 949-5726

SOUTHWEST LOUISIANA RIFLE AND PISTOL CLUB, Lake Charles, Louisiana. Contact: James Neal, Jr., 1203 California St., Lake Charles, LA 70605. (318) 477-6440.

MID-CONTINENT REGION

COLORADO BENCHREST SHOOTERS, INC., Morrison, Colorado. Contact: Dan Dowling, 10919 W. 59th Place, Arvada, CO 80004. (303) 422-6884.

KANSAS CITY MILL CREEK RIFLE CLUB, Desota, Kansas. Contact: Larry Kuse, 8112 W. 89th Street, Overland, Park, KS 66212. (913) 649-7344. (NO WARM UPS; 3 MINUTE RULE).

OKIE SHOOTERS, Edmond, Oklahoma. Contact: Dennis Wagner, 6821 N. W. 28th Street, Bethany, OK 73008. (405) 495-2868.

SANDHILL RIFLE AND PISTOL CLUB, Great Bend, Kansas. Contact: Steve Ochs, 3023 17th, Great Bend, KS 67530. (316) 792-2245.

SPRINGFIELD RIFLE CLUB, Springfield, Missouri. Contact: Mike Bishop, 409 South Avenue, Springfield, MO 65806. (417) 865-5790.

TULSA BENCHREST CLUB, Skiatook, Oklahoma. Contact: Wayne Blacketter, 7811 E. 2nd Street, Tulsa, OK 74112. (918) 835-5195.

WELD COUNTY FISH AND WILDLIFE ASSOCIATION, INC., Greeley, Colorado. Contact: John Ambler, 2025 Cheshire Street, Ft. Collins, CO 80526. (303) 226-5217.

NO WARM-UP MATCHES WILL BE FIRED. THREE MINUTES WILL BE ALLOWED PRIOR TO THE FIRST RECORD MATCH AT EACH YARDAGE TO GET ON TARGET.

MISSISSIPPI VALLEY REGION

B & R GUN CLUB, Westfield, Indiana. Contact: Bill Gwin, 2302 State Road 38 East, Westfield, IN 46074. (317) 877-3108. All matches will start at 9:00 a.m. Warm up matches WILL BE fired.

BEESON'S RIFLE RANGE, Etna Green, Indiana. Contact: Jon Lau, 860 US Hwy 30 East, #10, New Haven, IN 46774. (219) 749-9810.

BENCHREST RIFLE CLUB OF ST. LOUIS, St. Louis Missouri. Contact: Art Freund, 1038 Hornsby Avenue, St. Louis, MO 63147. (314) 388-1352. (NO WARM UP MATCHES).

EGYPTIAN RIFLE AND PISTOL CLUB, Carbondale, Illinois. Contact: Marvin Voss, RR 1, Dedar Lane 15, Carbondale, Illinois 62901.

NORTH CENTRAL REGION

ATCHINSON RIFLE CLUB, Cooperstown, North Dakota. Contact: Richard Reiten, P.O. Box 589, Cooperstown, ND 58425. (701) 797-2668.

BUFFALO RIFLE CLUB. Contact: L. Mosebar, P.O. Box 284, Story, WY 82842.

CEDAR RAPIDS BENCHREST CLUB, Cedar Rapids, Iowa. Contact: Ed Kvarda, 2406 Ellis Boulevard, N.W. Cedar Rapids, IA 52405. (319) 396-0017.

COUNCIL BLUFF RIFLE AND PISTOL CLUB, Council Bluff, Iowa. Contact: Robert Dodd, 8230 Wilson Drive, Ralston, NE 68127. (402) 331-9529.

May 19 — Hunter class match
July 13 — North Central Region Light Varmint Class Regional Championships

July 14 — North Central Region Heavy Varmint Class Regional Championships

Aug. 24 — Nebraska and Iowa State Championships, light varmint class

Aug. 25 — Nebraska and Iowa State Championships, heavy varmint class

Sept. 22 — Nebraska and Iowa State Championships, hunter class

DAKOTA BENCHREST SHOOTERS CLUB, Sioux Falls, South Dakota. Contact: Daryl Jensen, 615 South Willow Street, Sioux Falls, SD 57105. (605) 338-8814.

MINNETONKA GAME AND FISH CLUB, St. Francis, Minnesota. Contact: Don Judd, 645 20th Avenue, N.W., New Brighton, MN 55112. (612) 633-6799.

PRAIRIE DOG TARGET CLUB, Porcupine, South Dakota. Contact: Don Deckert, R.R., Porcupine, SD 57772. (605) 288-1919. (Saturday matches begin at 9:00 a.m., Sunday matches at 8:00 a.m.).

RIVER CITY RIFLE AND PISTOL CLUB, Mason City, Iowa. Contact: Gary Venz, 2318 26th S.W., Mason City, IA 50401. (515) 423-5254.

WILTON RIFLE CLUB, Muscatine, Iowa. Contact: Dennis Shepard, 12 Debbie Avenue, Muscatine, IA 52761. (319) 264-3909.

NORTHWESTERN REGION

ENTIAT BENCH REST CLUB, #2 Canyon, Wenatchee, Washington. Contact: Bob Miller, Box 395, Entiat, WA 98822. (509) 784-1648. All matches start at 8:00 am.

April 28 — Hunter class 100-200 yards

May 5 — Hunter class 100-200 yards

June 2 — Hunter class 100-200 yards

June 30 — Hunter class 100-200 yards

Aug. 10 — Hunter class 100 yards, Washington State Champ.

Aug. 10 — Hunter class 200 yards, Washington State Champ.

Sept. 8 — Hunter class 100-200 yards

LaGRANDE RIFLE AND PISTOL CLUB, LaGrande, Oregon. Contact: Greg Bergari, Rt. #4, Box 4411, LaGrande, Oregon 97850. (503) 963-0529

NAMKA BENCHREST SHOOTERS CLUB, Calgary, Alberta, Canada. Contact: Al Mirdoch, Box 3070, Station B, Calgary, Alberta, Canada T2M-4L6. (403) 242-5679.

Sept. 14 — Hunter class 100 yards, Northwest Regional Champ.; HV for score 100 yards

Sept. 15 — Hunter class 200 yards, Northwest Regional Champ.; HV for score

PUGET SOUND BENCHREST RIFLE CLUB, Issaquah, Washington. Contact: Bill Crosby, P.O. Box 125, Edmonds, WA 98020. (206) 743-2477. All matches start at 9:00 am, 10:00 am on Sundays.

April 27 — Work Party

April 28 — Fly Shoot HV 100-200 yards

May 4 — Unlimited 5 shot 100-200 yards, Washington State Champ.

May 5 — Unlimited 10 shot 100-200 yards, Washington State Champ.

May 25 — HV or Unlimited 5 shot, SP or LV 100 yards

May 26 — HV or Unlimited 5 shot, SP or LV 200 yards

May 27 — HV or Unlimited 5 shot, SP or LV 300 yards

June 15 — LV, HV, 100 yards, Washington State Champ.

June 16 — LV, HV, 200 yards, Washington State Champ.

July 13 — Unlimited 10 shot 100-200 yards, Northwest Regional

July 14 — Unlimited 10 shot 300 yards

Aug. 17 — Hunter class 100-200 yards

Aug. 31 — LV, 100-200 yards, Northwest Regional

Sept. 1 — SP, 100-200 yards, Washington State Champ.

SNOW SHOE GUN CLUB, Kenai, Alaska. Contact: J.E. Kenner, P.O. Box 311, Kenai, Alaska 99611.

TRI-COUNTY GUN CLUB, Sherwood, Oregon. Contact: Bob Scheible, 23790 S. Beatie Road, Oregon City, Oregon 97045. (503) 632-4673.

May 19 — HV, 100-200 yards, Northwest Regional Champ.

June 22 — SP, 100-200 yards

June 23 — SP, 300 yards

July 21 — SP, 100-200 yards, Northwest Regional Champ.

Aug. 24 — HV for score 100-200 yards

Aug. 25 — Hunter class 100-200 yards, Oregon State Champ.

WESTERN MONTANA FISH AND GAME ASSOCIATION, Missoula, Montana. Contact: Bill Cote, 3314 Paxson, Missoula, Montana 59801. (406) 549-4719.

SOUTHEASTERN REGION

SOUTHEAST REGION POLICY: NO WARM UP MATCHES: 3 MINUTE SIGHT IN PERIOD AT ALL MATCHES! All will be "on paper" before the first record match is started.

ALLEGHANY COUNTY RIFLE ASSOCIATION, Sparta, North Carolina. Contact: Charles Joines, Box 306, Sparta, NC 28675. (919) 372-4847.

July 20 — Alleghany Invitational, LV & HV 100 yards (Sat. only)

BUCCANEER GUN CLUB, Wilmington, North Carolina. Contact: Don Sloop, 3306 Bragg Drive, Wilmington, NC 28403. (919) 799-4627.

Mar. 23-24 — North Carolina State Championship. 23: LV & HV 100 yards. 24: UL10 100 yards.

Sep. 7-8 — Buccaneer Shrimp Fest Invitational. 7: LV & HV 100 yards. 8: UL10 100 yards.

CENTRAL FLORIDA BENCHREST CLUB, Melbourne, Florida. Contact: James Hare, 5700 Palm Dr., Ft. Pierce, Fla. 33450. (305) 465-8782.

Feb. 9-10 — Southeast Region Opener. 9: HV & UL 100 yards. 10: LV & SP 100 yards.

June 23-24 — Sunshine State Invitational. 23: HV & UL 100 yards. 24: LV & SP 100 yards.

Nov. 30-Dec. 1 — Florida State Championship. 30: HV & UL 100 yards. 1: LV & SP 100 yards.

CHARLOTTE RIFLE & PISTOL CLUB, P.O. Box 11183, Charlotte, NC 28209.

FAYETTE COUNTY GUN CLUB, INC., P.O. Box 212, Fayette, Alabama. Contact: Charles Lahay, 131 14th Court, N.W., Fayette, AL 35555. (205) 932-3684.

Feb. 23-24 — Fayette Invitational. 23: LV & HV 200 yards. 24: LV & HV 100 yards.

Oct. 19-20 — Alabama State Championship. 19: LV & HV 200 yards. 20: LV & HV 100 yards.

GALLATIN GUN CLUB, Gallatin, Tennessee. Contact: Charles Curtis, Rt. 4, Box 241, Sparta, Tennessee 38583. (615) 761-2765.

Sept. 21-22 — Tennessee State Championship. 21: HV & UL 200 yards. 22: LV & SP 200 yards.

GREENVILLE GUN CLUB, INC., P.O. Box 123, Greenville, South Carolina. Contact: Ed Watson, 2404 Wade Hampton Boulevard, Greenville, SC 29615. (803) 244-7948. No warm-up matches. 3 minute sight in period when you go to the bench for your first record match. Everyone will be on paper before the first record shot is fired.

Apr. 13-14 — Palmetto State Invitational. 13: HV & UL 100 yards. 14: LV & SP 100 yards.

Oct. 5-6 — South Carolina State Championship. 5: HV & UL 100 yards. 6: LV & SP 100 yards.

ISAAK WALTON BENCHREST CLUB, Rt. 5 - 300 Manakin Rd., Midlothian, Virginia 23113.

JACKSON COUNTY SHOOTING CLUB, P.O. Box 1936, Sylva, North Carolina. Contact: James Messer, Box 2, Webster, NC 28788. (704) 586-5921.

KETTLEFOOT ROD AND GUN CLUB, P.O. Box 384, Bristol, Tennessee. Contact: Claude Smith, 2325 Westfield, Bristol, VA 24201 (703) 669-6594 or J.D. Stamper (703) 889-4329.

Apr. 27-28 — Virginia State Championship. 27: LV & SP 200 yards. 28: LV & SP 100 yards.

July 6-7 — Virginia State Championship. 6: HV & UL 200 yards. 7: HV & UL 100 yards.

LONG CREEK RIFLE AND PISTOL CLUB, Charlotte, North Carolina. Contact: Larry Earp, 1029 Byrum Street, Charlotte, NC 28216. (704) 399-1793.

May 11-12 — Southeast Region Championship. 11: HV & UL 200 yards. 12: HV & UL 100 yards.

Nov. 9-10 — Southeast Region Championship. 9: LV & SP 200 yards. 10: LV & SP 100 yards.

MEMPHIS RIFLE AND REVOLVER ASSOCIATION, INC., Memphis, Tennessee. Contact: George Busby, 3387 St. Elmo, Memphis, TN 38128. (901) 372-1728.

MID-CAROLINA RIFLE CLUB, P.O. Box 814, Columbia, South Carolina. Contact: Jerry Shelton, 217 Cedar Vale Drive, Lexington, SC 29072. (803) 356-3047.

Mar. 9-10 — Mid-Carolina Spring Shoot. 9: HV & UL 100 yards. 10: LV & SP 100 yards.

June 8-9 — E.G. Bumgardner Invitational. 8: HV & UL 100 yards. 9: LV & SP 100 yards.

PALMETTO GUN CLUB, Charleston, South Carolina. Contact: Bruce Hillman, 6220 Murray Avenue, N (Apt 6A). Hanahan, SC 29406.

RIVER BEND GUN CLUB, P.O. Box 292, Norcross, Georgia. Contact: Joe Carlisle, 31 Swinnett Drive, Apt. C-5, Lawrenceville, GA 30045. (404) 962-4687.

ROANOKE RIFLE AND REVOLVER CLUB, P.O. Box 8252, Roanoke, Virginia. Contact: Ted Manning, R.D. 4, Box 416B, Salem, VA 24153. (703) 362-8046.

TWIN CITY RIFLE AND PISTOL CLUB, Roanoke Rapids, North Carolina. Contact: John Reber, 2306 Old Farm Road, Roanoke Rapids, NC 27870.

VOLUNTEER RIFLE AND PISTOL CLUB, Knoxville, Tennessee. Contact: Nick Young, 10816 Kingston Pike, Knoxville, TN 37922. (615) 966-7680.

WATAUGA GUN CLUB, Boone, North Carolina. Contact: Larry Isenhour, Rt. 1, Box 284A, Zionville, NC 28698. (704) 297-3963. Aug. 17-18 — Pioneer Invitational. 17: HV & LV 200 yards. 18: SP 200 yards.

WYOMING ANTELOPE CLUB, Pinellas Park, Florida. Contact: John Jessip, 10900 Roosevelt Boulevard N., St. Petersburg, FL 33702. (813) 576-6675 (anytime).

SOUTHEAST REGIONAL ANNUAL MEETING, Greenville, S.C. — Sat., Dec. 8, 1985, 1:00 P.M.

SOUTHWESTERN REGION

ARIZONA BENCHREST SHOOTER, Phoenix, Arizona. Contact: Nancy Miller, 7221 W. Angela, Peoria, Arizona 85345. (602) 979-5764.

Mar. 2 — Cactus Classic, Light Varmint, Heavy Varmint, 100 yards

Mar. 3 — Cactus Classic, Light Varmint, Heavy Varmint, 200 yards

May 4 — Light Varmint

May 5 — Heavy Varmint

Oct. 5 — Light Varmint

Oct. 6 — Heavy Varmint

CALIFORNIA BENCH REST SHOOTERS ASSOCIATION, Visalia, California. Contact: Dennis Thornbury, 1114 S. McAuliff Road, Visalia, CA 93277. (209) 732-4401.

Mar. 16 — Light Varmint

Mar. 17 — Heavy Varmint

May 18 — Sporter

May 19 — Heavy Varmint

June 8 — Light Varmint

June 9 — Heavy Varmint

July 13 — Calif. State Unlimited (10 Shot) Championships

July 14 — Heavy Varmint

Aug. 31 — Calif. State Sporter Championships

Sept. 1 — Calif. State Light Varmint Championships

Sept. 2 — Calif. State Heavy Varmint Championships

Oct. 26 — Visalia Invitational Unlimited (5 Shot)

Oct. 27 — Visalia Invitational Unlimited (5 Shot)

CARSON RIFLE AND PISTOL CLUB, Carson City, Nevada. Contact: Dick Cundiff, 2549 Sneddon Way, Carson City, Nevada 89701. (702) 882-9115.

DESERT SPORTSMAN'S RIFLE AND PISTOL CLUB, Las Vegas, Nevada. Contact: Robert B. Roberts, 2300 El Cerrito Circle, Las Vegas, Nevada 89108. (702) 648-1959.

SOUTHERN UTAH BENCHREST ASSOCIATION, St. George, Utah. Contact: Rick Adams, 24 E. 750 South Street, St. George, Utah 84770.

Feb. 16 — Chicken Shoot, Heavy Varmint, 100, 200 & 300 yd.

Feb. 17 — Utah State Sporter Championships

Apr. 20 — Utah State Light Varmint Championships

Apr. 21 — Utah State Heavy Varmint Championships

Sept. 21 — Southwest Regional Sporter Championships

Sept. 22 — Southwest Regional Light Varmint Championships

Nov. 16 — Southwest Regional Unlimited (10 Shot) Championships

Nov. 17 — Southwest Regional Heavy Varmint Championships

ISSAQUAH

The Puget Sound Benchrest Rifle Club, on September 28th, held their second White Cane Invitational for unlimited class rifles. The rules of the White Cane match give the match its well-chosen name . . . after the warmup match is fired, the scope covers go on, and the entire match is fired with return-to-battery rifles, and no scopes, and no peeping whatsoever. And furthermore, just in case some shooter has real good eyes, and could see bullet holes at 100 yards, the match was held at 200 and 300 yards. Obviously your mechanical rests have to be in top working order, and you have to be a good wind dooper. If you can't handle mirage . . . this should be your kind of match! Ten shooters ventured forth for the zany, but fun, match.

At 200 yards: 1.) Bill Crosby .3717, 2.) Doc Vosburgh .5131, 3.) Manley Oakley .5465, Small group, Doc Vosburgh .588. For the record Bill Crosby's 200 yard aggregate was the best aggregate at this yardage all year at the Issaquah range unlimited class rifles.

At 300 yards: 1.) Bill Crosby .6831, 2.) Doc Vosburgh .7004, 3.) Joe Mendham .7048. Small group, Doc Vosburgh 1.210.

Grand agg: 1.) Bill Crosby .5274, 2.) Doc Vosburgh .6068, 3.) Joe Mendham .6545. Grand agg winner Bill Crosby, of Edmonds, Washington fired a 6x47, Weber action, Hart barrel, no scope, 30.0 grains of H 335 powder with Simonson 71 grain bullets, in a rifle smithed and stocked by himself.

Probably the rules of the match only "bit" two shooters . . . both of which casually fired a few fouling shots . . . and then forgot to "cam up" to the record target. The penalty for such goings on is quite rough. A sense of honor forbids me to name them. But I can give hints . . . one of them is the regional director, and the name of the other rhymes with Annie Oakley. But I can't tell you their names.



NBRSA OFFICERS

Walt Berger, President
4234 N. 63rd Ave. (602) 846-5791
Phoenix, Arizona 85003

George Kelbly, Vice President
7222 Dalton Fox Lake Rd. (216) 683-4674
North Lawrence, Ohio 44666

EASTERN REGION

Stan Buchtel, Director
5735 Sherwood Forest Dr. (216) 882-6877
Akron, Ohio 44319

GULF COAST REGION

Howard Dietz, Director
Star Route 1, Box 65 (512) 885-4662
New Braunfels, Texas 78130

MID-CONTINENT REGION

Dennis Wagner, Director
6821 NW 28 (405) 495-2868
Bethany, Oklahoma 73008

MISSISSIPPI VALLEY REGION

Ron Hoehn, Director
1430 E. Duchsne (314) 837-3846
Florissant, MO 63031

NORTH CENTRAL REGION

Mike Prokosch, Director
1501 E. Highway 96 (612) 429-6750
White Bear Lake, MN 55110

NORTHEAST REGION

Lee Euber, Director
RD #1 (802) 388-4280
Middlebury, VT 05753

NORTHWEST REGION

Jim Folwell, Director
16040 Attilley Rd. S.
Tenino, Washington 98589

SOUTHEASTERN REGION

Ed Watson, Director
2404 Wade Hampton Blvd. (803) 244-7948
Greenville, South Carolina 29615

SOUTHWESTERN REGION

Dennis Thornbury, Director
1114 S. McAuliff Road (209) 732-4401
Visalia, CA 93277

SECRETARY-TREASURER

Stella Buchtel
5735 Sherwood Forest Drive (216) 882-6877
Akron, Ohio 44319

RECORDS COMMITTEE

Francis Broussard, Chairman
613 Sidney Drive (318) 332-5638
Breaux Bridge, La. 70517

NBRSA NEWS

David D. Brennan, Editor
37 Burnham Street
East Hartford, Conn. 06108 (203) 289-8775
[work] (203) 643-1157

NBRSA World Records As of January 1, 1985

SINGLE GROUPS	Bench Rest Rifle	Heavy Varmint	Light Varmint	Sporter
5-100	.063" Hap Zeizer 8/30/58	.027" Ralph Landon 9/13/75	.009" Mac McMillan 9/23/73	.041" Jerry Thornbrugh 10/21/78
5-200	.161" David Pickens 7/15/67	.108" Earl Case 9/5/76	.109" Stu Harvey 7/10/76	.110" Tom Minder 7/4/81
5-300	.373" Art Freund 7/11/81	.285" Jeff Summers 9/1/84	.437" Gene Harwood 5/16/82	.433" Tony Boyer 7/14/84
10-100	.117" Gary Bailey 9/17/83	— — —	— — —	— — —
10-200	.298" Melvin Miller 7/20/68	— — —	— — —	— — —
10-300	.536" James Coffey 7/14/84	— — —	— — —	— — —
AGGREGATES				
5-5-100	.1649 L. E. Wilson 5/12/81	.1399 Rex Reneau 9/6/82	.1516 Lester Bruno 7/26/84	.1773 Jef Fowler 7/28/80
5-5-200	.1873 Art Freund 8/14/82	.1827 Larry Hahn 3/20/83	.2003 Bob Dodd 6/26/82	.1972 Joe Staples 7/7/84
5-5-300	.1801 Lee Andrews 5/28/83	.2431 Jeff Summers 9/1/84	.2495 James Jarrett 9/4/82	.2328 Tony Boyer 9/3/83
5-10-100	.2175 Art Freund 6/4/78	— — —	— — —	— — —
5-10-200	.2322 Don Geraci 9/5/81	— — —	— — —	— — —
5-10-300	.3305 Ed Watson 7/15/84	— — —	— — —	— — —
GRAND AGGREGATES				
5-5 (100 + 200)	.2017 Bill Haley 8/14/82	.1985 Larry Hahn 3/20/83	.2169 Lester Bruno 7/26/84	.2233 Don Geraci 7/29/82
5-5 (200 + 300)	.2578 Art Freund 7/11/81	.2497 Jeff Summers 9/1/84	.2621 James Jarrett 9/4/82	.2496 Tony Boyer 9/3/83
5-5 (100+200+300)	.2515 Lee Andrews 5/28/83	.2572 Tony Boyer 9/1/84	.2732 James Jarrett 9/4/82	.2425 Tony Boyer 9/3/83
5-10 (100 + 200)	.2563 Al Roberts 8/11/62	— — —	— — —	— — —
5-10 (200 + 300)	.3567 Ed Watson 7/15/84	— — —	— — —	— — —
5-10 (100+200+300)	.3555 Walt Berger 6/26/82	— — —	— — —	— — —
100 yards 250-17X Marcy Lyons 5/16/82		HUNTER 200 Yards 249-18X Weldon Laviolette 8/26/84	Grand Aggregate 499-33X Weldon Laviolette 8/26/84	

AUGUSTA

The Reed's Run gang held an unlimited class match, with 12 shooters, and a heavy varmint class match with 19 shooters on October 13th and 14th. Gerry Masker made his first ever appearance at the range, won the unlimited class, with what everyone agreed was some very nice shooting, and peacefully left for home. It was only much later that night, when Gerry Masker was telling Seely Masker (by phone) his score that Masker Senior said to Masker Junior "didn't you or anyone else notice that you apparently broke the NBRSA record for grand agg in the unlimited class?" The range measurement of .2503 grand agg, if it were to hold up, would replace the Al Roberts figure of .2563 that dates back to 1962, and which is the second oldest record on the books. I do believe that there was quite a bit of frenzied looking for backer targets at that point.

Unlimited class, 100 yards: 1.) Gerald Masker .2162, 2.) Phil Jones .2362, 3.) Charles Dalessandro .2734. Small group, Gerald Masker .164. (Note: at this point the plot thickens further the .2162 range measurement is below the existing record of .2175 fired by Art Freund in 1978!) At 200 yards: 1.) Gerald Masker .2844, 2.) Orlin Gilkerson .2986, 3.) James Wakely .3024. Small group, Lee Dycus .383. Grand agg: 1.) Gerald Masker .2503, 2.) Phil Jones .2714, 3.) Orlin Gilkerson .2872. The excellent shooting of Gerry Masker of Getzville, New York was done with a 6 PPC, sleeved Wichita action, Hart barrel, Lyman-Siebert 40x scope, 29.5 grains of N 201 with 68 grain Euber bullets, in a rifle smithed by Seely Masker and stocked by Bill Hall a pair of painstaking craftsmen.

In the heavy varmint class, James Wakely got way out in front of the field at 100 yards, and almost made it to "the teens". At 100 yards: 1.) James Wakely .2068, 2.) Lee Dycus .2646, 3.) Charles Dalessandro .2702, 4.) Phil Jones .2776. Small group, .104 by James Wakely. At 200 yards: 1.) Phil Jones .2203, 2.) James Wakely .2421, 3.) William James, Jr. .2642, 4.) Lee Dycus .2680. Small group was an official screamer, a tidy .166 by William James, Jr. Grand agg: 1.) James Wakely .2244, 2.) Phil Jones .2489, 3.) Lee Dycus .2663, 4.) Charles Dalessandro .2798. Grand agg winner James Wakely, of Rochester, Michigan fired a 6 PPC, sleeved XP-100 action, Hart barrel, Leupold-Siebert 30x, an unspecified amount of T 322 with 68 grain Keim bullets, in a rifle smithed by Ed Bell, and stocked by Fred Sinclair.

ISSAQUAH

There were 16 shooters at the Puget Sound range, in Issaquah, Washington on August 25th for the Washington state sporter class championships.

At 100 yards: 1.) Del Bishop .3052, 2.) Verne Johnson .3160, 3.) Alex Bulman .3192, 4.) Larry Ottman .3220. Small group, Larry Ottman .130. At 200 yards: 1.) Manley Oakley .4580, 2.) Sid Sato .4985, 3.) Steve Kostanich .5013, 4.) Alex Bulman .5071. Small group, Royal Fitting .351. Grand agg (and just a trifle close!): 1.) Manley Oakley .4061, 2.) Del Bishop .4064, 3.) Alex Bulman .4132, 4.) Sid Sato .4255. Grand agg winner Manley Oakley, of Seattle, Washington fired a 6 PPC, sleeved XP-100 action, Wiseman barrel, Leupold 36x scope, 27.0 grains of H 322 with his own 65 grain bullets, in a rifle smithed and stocked by himself.

On the following day, there were six shooters on hand for a hunter class match. At 100 yards: 1.) Steve Kostanich 247-9x, 2.) Verne Johnson 246-6x, 3.) Bob Whitehall 244-6x. At 200 yards: 1.) Bob Whitehall 239-11x, 2.) Ted Whitehall 230-6x, 3.) Steve Kostanich 230-6x. Grand agg: 1.) Bob Whitehall 483-17x, 2.) Steve Kostanich 477-15x, 3.) Ted Whitehall 469-12x. Grand agg winner Bob Whitehall, of Entiat, Washington fired a .308, Remington 700 action, McMillan barrel, Weaver KT 6x scope, 44.7 grains of 4350 powder with Sierra 168 grain bullets, in a rifle smithed and stocked by Manley Oakley.

HOLTON

Seventeen shooters fired in both varmint classes contested at the Holton, Michigan range on September 22nd and 23rd. Competition in the heavy varmint was very tight, but the light varmint class was a blow-out.

Heavy varmint, 100 yards: 1.) Harry Hoppe .2358, 2.) Ernie Haase .2438, 3.) Ron Davidson .2464, 4.) Bill Gammon .2724, 5.) Ron Datema .2742. Small group, Ron Davidson .122. At 200 yards: 1.) Bill Gammon .2479, 2.) Ron Datema .2620, 3.) Ernie Haase .2738, 4.) Ron Davidson .3034, 5.) T.Y. Hamilton .3110. Small group, Bill Gammon .324. Grand agg: 1.) Ernie Haase .2588, 2.) Bill Gammon .2601, 3.) Ron Datema .2681, 4.) Ron Davidson .2749, 5.) Harry Hoppe .2888. Grand agg winner Ernie Haase, of Pontiac, Michigan fired a 6 PPC, Stolle action, Hart barrel, Leupold-Seibert scope, and a load of 27.2 grains of H 322 with Keim bullets.

Light varmint class, 100 yards: 1.) Al Fay .2478, 2.) Harry Hoppe .2516, 3.) Vic

Halverson .2774, 4.) Ron Datema .3088, 5.) Bill Gammon .3204. Small group, Vic Halverson .110. At 200 yards one begins to wonder exactly what it was that Harry Hoppe was watching . . . and the other shooters (apparently) were not: 1.) Harry Hoppe .2930, 2.) Len Nanzer .4018, 3.) Bill Gammon .4132, 4.) Ron Davidson .4166, 5.) Al Fay .4197. Small group, Harry Hoppe .380. Grand agg: 1.) Harry Hoppe .2723, 2.) Al Fay .3337, 3.) Bill Gammon .3668, 4.) Len Nanzer .3821, 5.) T.Y. Hamilton .3865. Grand agg winner Harry Hoppe, of Muskegon, Michigan fired a 6 PPC, sleeved 700 action, Hart barrel, Lyman-Siebert 30x scope, 30.0 grains of H 4895 with 68 grain Stewart bullets.

WILMINGTON

The Buccaneer Gun Club hosted the North Carolina State Championships on March 23rd and 24th. Conditions were fairly brisk, switching winds with an occasional thunder shower. These conditions didn't seem to bother Tony Boyer in the least, as he edged out Ed Watson for the three gun championship.

Light Varmint Class (35 shooters) 100 yards: 1) Tony Boyer .2568, 2) Larry Earp .2736, 3) Faye Boyer .2836, 4) Smiley Hensley .2882, 5) Ed Watson .2986. Small group, Tony Boyer .132. Tony shot 6PPC with a Hall action, Wiseman barrel, smithed by Hollister and stocked by Kelly. He used Euber 68 gr. bullets, 30 gr. Norma 201 and a Leupold 36X scope.

Heavy Varmint Class (36 shooters) 100 yards: 1) Tony Boyer .2394, 2) Ed Watson .2548, 3) Fletcher Williams .2576, 4) T.C. Van Landingham .2640, 5) Larry Earp .2578. Small group .108 by Ed Watson. Tony shot 6PPC with a Hall action, Wiseman barrel, smithed by Hollister, but this time stocked by himself. Load and scope were the same.

Unrestricted Class (31 shooters) 10 shot, 100 yards: 1) Ed Watson .3070, 2) Larry Earp .3186, 3) James Messer .3304, 4) Kenny Jarrett .3518, 5) T.C. Van Landingham .3520. Small group, Faye Boyer with a .171. Ed shot a Bill Hall rail gun, Hall "B" action, Hart barrel, smithed by Broughton and topped with a Redfield 28X scope. His load was 25½ gr. Du. 4198 and of course, Watson bullets.

Three Gun and State Champion: 1) Tony Boyer .2828, 2) Ed Watson .2868, 3) Larry Earp .2893, 4) Faye Boyer .3160, 5) Smiley Hensley .3290.

We understand that Keezletown, Va. is now on the map. A rumor has it that the Boyers put it there. Is there a truth to this? A comment was heard from one of the

participants after the match, that he thought the rest of the shooters did a terrific job holding the Boyers to only five trophies!

The Fall match at Wilmington had to be cancelled. Two weeks prior to the date, Hurricane "Diana" came through and destroyed the range and the road to it. All that was left of the shooting shed were three posts. The range has now been rebuilt and the shed extended eight feet in front of the firing line. This should make for much more comfortable shooting in 1985. It's said in Wilmington that the conditions during the storm were very similar to the shooting conditions in the Gulf Region!

Reported by Tom Van Landingham.

ETNA GREEN

The Northern Indiana Benchrest Shooters had 26 shooters at Beeson's Range, on October 6th and 7th for the Mississippi Valley Sporter Regionals, and an accompanying heavy varmint class match. Kim Brown had quite a weekend for himself, really beating up on the locals. P.S. Columnist Jon Leu also fired, which is all that we will be able to say on that subject. We tell you this because you will not see Jon's name anywhere else in this report, and we wanted you to know that he was there.

Heavy varmint class 100 yards: 1.) Bill Gammon .2622, 2.) Kim Brown .2808, 3.) Bill Forrester .2878, 4.) Harry Hoppe .2914, 5.) Phil Jones .2916. Small group, Arne Carlsen .137. At 200 yards: 1.) Kim Brown .2773, 2.) Walt Balch .2959, 3.) Harry Hoppe .2990, 4.) Reg Gale .3304, 5.) Phil Jones .3390. Small group, Kim Brown .362. Grand agg: 1.) Kim Brown .2790, 2.) Harry Hoppe .2952, 3.) Phil Jones .3153, 4.) Walt Balch .3177, 5.) Ken Rossing .3235. Grand agg winner Kim Brown, of Fort Wayne, Indiana fired a 6 PPC, Stolle Panda action, Leupold 36x scope, in a rifle smithed and stocked by Fred Sinclair; other equipment data is lacking.

Sporter class, 100 yards: 1.) Kim Brown .2138, 2.) Ken Rossing .2572, 3.) Vic Swindlehurst .2900, 4.) Dave Wick .3172, 5.) Larry Fisher .3210. Small group, Ken Rossing .108. At 200 yards: 1.) Kim Brown .2728, 2.) Bill Forrester .3091, 3.) Jim Fedorwich .3153, 4.) Fred Hasecuster .3294, 5.) Vic Swindlehurst .3340. Small group, Sal Ventimiglia .351. Grand agg: 1.) Kim Brown .2433, 2.) Vic Swindlehurst .3120, 3.) Bill Forrester .3223, 4.) Jim Fedorwich .3384, 5.) Jim Stewart .3452. It would appear that Kim Brown used the same equipment in both classes.

NEW BRAUNFELS

The Texas State Championships can be depended on to draw a crowd, and the light varmint and sporter championships on September 1st and 2nd, at the Dietz Range in New Braunfels brought out 75 shooters determined to do their best for the Lone Star State.

Light varmint class, 100 yards: 1.) David Mann .2730, 2.) Jef Fowler .2740, 3.) Larry Baggett .3052, 4.) Ralph Council .3084, 5.) D. Sansom .3116. Small group, Jef Fowler .157. At 200 yards: 1.) T.J. Jackson .3998, 2.) David Mann .4133, 3.) Jacob Gottfredson .4144, 4.) Jef Fowler .4145, 5.) Larry Baggett .4159. Small group, Jamie Heger .325. Grand agg: 1.) David Mann .3432, 2.) Jef Fowler .3563, 3.) Larry Baggett .3606, 4.) Jacob Gottfredson .3669, 5.) Ed Shilen .3808. Grand agg winner David Mann, of Bowie, Texas fired a 6 PPC, 40x action, Leupold 36 power scope, and a load of 27.4 grains of T 322 with Berger 68 grain bullets, in a rifle smithed by Webb, and stocked by Pashman.

Conditions for the light varmint class on Saturday (reported above) were tough, but

on Sunday, they sure did not get any better at 200 yards Jef Fowler, on three consecutive groups was out around the inch and a half mark, so it would appear that things were indeed tough.

Sporter class, 100 yards: 1.) Jacob Gottfredson .2240, 2.) Jef Fowler .2382, 3.) Kenny McIntyre .2688, 4.) D. Sanson .2838, 5.) Ralph Council .2852, 6.) Speedy Gonzalez .2858. Small group, Jef Fowler .123. At 200 yards: 1.) Speedy Gonzalez .4172, 2.) Howard Dietz .4287, 3.) Cliff Styles .4334, 4.) Bill Mann .4540, 5.) Larry Baggett .4570, 6.) Ralph Council .4573. Small group, Bill Mann .187; which means the gentleman fired an official screamer group under pretty lousy conditions. Grand agg: 1.) Speedy Gonzalez .3515, 2.) Cliff Styles .3638, 3.) Jacob Gottfredson .3673, 4.) Ralph Council .3712, 5.) Bill Mann .3787, 6.) Howard Dietz .3891. Grand agg winner Speedy Gonzalez, of Comanche, Texas fired a 6 PPC in a Stolle Panda action (pillar bedded in a McMillan graphite stock), Shilen 6 groove barrel, Leupold 36x scope, with 27.1 grains of IMR 4198 (Lot #3138), with his own 63 grain bullets, in a rifle smithed by Harold Broughton, and stocked by himself.

TOMBALL

The Greater Houston Benchrest Shooters Association held a hunter class match as well as a heavy varmint class match on September 29th and 30th at the Tomball Gun Club, 30 miles northwest of the city of Houston. It was the first match for this club, but 33 shooters showed up, and that ain't bad for first-times.

There were 15 shooters in the hunter class, which was conducted at 100 yards only. Top three: 1.) Gary Vincent 250-8x, 2.) Tom Schmidtke 248-8x, 3.) Ralph Council 247-8x. A trophy was given for the most x's, and that went to Virgil King, with a 9x count. Agg winner Gary Vincent, of Lafayette, Louisiana fired a 6 HLS, Remington 700 action, McMillan barrel, Leupold scope, and an unspecified amount of 760 powder with Euber 72 grain bullets.

In the heavy varmint class, with 33 shooters, conditions turned sporting, particularly at 200 yards, and top five at that yardage became the top five for the grand agg. At 100 yards: 1.) Virgil King .2558, 2.) Ron Prachyl .2678, 3.) Marcy Lyons .2692, 4.) Richard Warwick .2870, 5.) Audy Adams .3060. Small group, a .110 by Clyde Honea. At 200 yards: 1.) Ron Prachyl .3783, 2.) Speedy Gonzalez .4335, 3.) Marcy Lyons .4370, 4.) Richard Warwick .5366, 5.) Frank Wilson .5387. Small group, Audy Adams .347. Grand agg: 1.) Ron Prachyl .3231, 2.) Marcy Lyons .3531, 3.) Speedy Gonzalez .3812, 4.) Richard Warwick .4118, 5.) Frank Wilson .4489. Grand agg winner Ron Prachyl, of Dallas, Texas fired a .22 PPC, Shilen action, Shilen barrel, Leupold 36x scope, and 27.5 grains of H 322 with 52 grain Remington bullets.

With trophies for top 3 places at each yardage, and five places in grand agg, and over \$1,000.00 in merchandise prizes, the Houston group appears to have held their first match in impressive style; good luck to them in '85.

MEMBERSHIP IN NBRSA

The cost of NBRSA Membership is only \$25.00 including a subscription to PRECISION SHOOTING. Associate Memberships are available only to the spouses and children under 18 of current NBRSA members, cost \$5.00 per year and includes all privileges except receipt of PRECISION SHOOTING. Outside the U.S. and Canada: Surface mail - \$37.50. Air Mail \$55.00

Send your check and application (which need not be on an official form) to Mrs. Stella Buchtel, Secretary NBRSA, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____